

1980 Census of Population and Housing Equal Employment Opportunity Special File, Puerto Rico. Technical Documentation

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CENSUS OF POPULATION, 1980;
EQUAL EMPLOYMENT OPPORTUNITY SPECIAL FILE,
PUERTO RICO
TECHNICAL DOCUMENTATION

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TECHNICAL DOCUMENTATION

Washington, D.C.

1983

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This documentation was prepared within the Data Access and Use Staff, under the direction of James P. Curry, Chief and Barbara J. Aldrich, Chief of its Technical Information Section. Annelte Ralston was the coordinator of this file assisted by Barbara Shugart and Mary G. Thomas. It was partially adapted from materials prepared by Thomas Scogg, John Priebe, Delana Kametani, and Marie Pecs of Population Division and Henry Woltman of Statistical Methods Division. Support was provided through content review by staff members from Decennial Census Division, Population Division, and Statistical Methods Division.

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ABSTRACT

Census of Population, 1980: Equal Employment Opportunity Special File, Puerto Rico [machine-readable data file] / prepared by the Bureau of the Census.
--Washington: The Bureau [producer and distributor], 1983.

TYPE OF FILE:

Summary Statistics.

UNIVERSE DESCRIPTION:

All persons in the civilian labor force in Puerto Rico.

SUBJECT-MATTER DESCRIPTION:

The file contains two tables. Table 1 is detailed occupation (514 categories) by sex. Table 2 is years of school completed by age and sex.

GEOGRAPHIC COVERAGE:

Data are provided for Puerto Rico, municipios, standard metropolitan statistical areas (SMSA's), and places (zonas urbanas) with a population of 50,000 or more.

TECHNICAL DESCRIPTION:

FILE SIZE:

Number of logical records is 91; record length is 8838 characters.

FILE SORT SEQUENCE:

The record for Puerto Rico is followed by all municipio records, by all SMSA records, and by records for all zonas urbanas of 50,000 or more population.

REFERENCE MATERIALS:

"Census of Population, 1980: Equal Employment Opportunity Special File, Puerto Rico Technical Documentation." The documentation includes this abstract, a data dictionary, a glossary, and additional information about the file.

FHC80-R3. Alphabetical Index of Industries and Occupations. The index features the respondent's industry (employer's kind of business) and occupation (employee's kind of work) as in the 1980 Census of Population, Current Population Survey, and other demographic surveys conducted by the Bureau of the Census. The index lists approximately 20,000 industry and 29,000 occupation titles in alphabetical order. It is a comprehensive list of specific industries and occupations developed over time and continuously updated through review of census and survey questionnaires. It is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. S/N 003-024-04939-2. Price is \$11.

FHC80-R4. Classified Index of Industries and Occupations. The index presents, for each category in the industrial and occupational classification systems, the individual titles that constitute each of the 231 industry and 503 occupation categories in the classification systems. The individual titles are the same as those shown in the Alphabetical Index. The 1980 occupation classification reflects the new U.S. Standard Occupational Classification (SOC). As in the past, the 1980 industry classification reflects the Standard Industrial Classification (SIC). The Classified Index is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. S/N 003-024-05002-1. Price is \$8.50.

U.S. Department of Commerce, Office of Federal Statistical Policy and Standards. Standard Occupational Classification Manual, 1980. This publication provides a coding and naming system for identifying and classifying occupations. The standards outlined in this publication were used in developing the census occupation classification. It is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. S/N 003-005-00187-5. Price is \$17.

RELATED MICROFICHE:

Census of Population, 1980: Equal Employment Opportunity Special File, Puerto Rico Microfiche. This is a microfiche version of the file showing the same tables for the same geography. The microfiche will be available in mid-1983. For more information, contact Data User Services Division, Customer Services (Microfiche), Bureau of the Census, Washington, D.C. 20233.

RELATED MACHINE-READABLE DATA FILES:

Occupation data are also available on Summary Tape File (STF) 3 and STF 4 although considerably less detail is provided. STF 3 has a table indicating number of persons in each of 13 occupation categories. A similar table is shown in STF 4 as well as an additional tabulation of 70 occupation categories by sex. STF 5 has tables showing detailed occupation for Puerto Rico and SMSA's. Some occupation categories are subdivided by industry groupings.

FILE AVAILABILITY:

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INTRODUCTION

The Equal Employment Opportunity (EEO) Special File for Puerto Rico was produced by the Bureau of the Census to help meet the needs of both government and private industry for more timely data in planning EEO/Affirmative Action programs than provided in other detailed census data products from the 1980 Census of Population.

The following government agencies which are concerned with equal employment opportunity and civil rights issues contributed advice in establishing this file: the Equal Employment Opportunity Commission (EEOC); the Department of Justice; the Department of Labor, particularly the Office of Federal Contract Compliance Programs (OFCCP), the Employment and Training Administration (ETA), and the Office of Civil Rights; the Office of Personnel Management (OPM); and the Office of Federal Statistical Policy and Standards (OFSPS), which is now part of the Office of Management and Budget (OMB). The Census Bureau also received comments from companies in the private sector.

The EEO File for Puerto Rico contains two basic tabulations: detailed occupation by sex and years of school completed by age and sex. The computer file provides data for Puerto Rico, municipios, standard metropolitan statistical areas (SMSA's), and for zonas urbanas with a population of 50,000 or more. A similar file is available for the United States providing data for States, counties, SMSA's, and for places with a population of 50,000 or more. In addition, data in the United States file are tabulated for twelve race/Spanish origin groups.

Census figures on number of workers by occupation have generally been accepted as estimates for the number of workers who are "skilled." The number of "available skilled workers" is often needed for affirmative action plans or other EEO-related activities. The file addresses this need for work-experience data by furnishing counts of people in specific occupations.

Many entry-level jobs, apprenticeship programs, and other work situations, on the other hand, do not require a skill based on work experience (as measured by occupation) but instead require a certain educational attainment. Employers recruiting for such jobs or programs need to know the available pool of qualified new entrants to the labor force. The table for years of school completed by age of persons in the civilian labor force meets this need for data on new entrants.

Summary Tape File 5 and the printed State reports PC80-1-D, Characteristics of the Population: Detailed Characteristics also will provide tables with other variables pertinent to affirmative action planning such as income and earnings, veteran status, and occupation by industry.

DESCRIPTION OF THE EQUAL EMPLOYMENT
OPPORTUNITY SPECIAL FILE FOR
PUERTO RICO

The Equal Employment Opportunity (EEO) Special File for Puerto Rico contains two tables. The first is a cross-tabulation of 514 occupations by sex. The second table contains data on years of school completed by sex for selected age groups. Data are summarized for the geographic areas indicated in Figure 1 below.

Figure 1. Sequence of Records on the EEO File for Puerto Rico

<u>Geographic Area</u>	<u>Record Type</u>
Puerto Rico	01
Municipios	02
SMSA's	03
Zonas Urbanas of 50,000 or more	04

The Puerto Rico record (record type 01) contains a summary for Puerto Rico.

The municipio record (record type 02) contains a summary for each municipio within Puerto Rico in census code sequence. All municipio records appear together on the file.

The standard metropolitan statistical area (SMSA) record (record type 03) contains a summary for each SMSA within Puerto Rico in ascending FIPS SMSA code sequence. All SMSA records appear together on the file.

The zona urbana record (record type 04) contains a summary for each zona urbana of 50,000 or more population within Puerto Rico in census code sequence. All records for zonas urbanas appear together on the file.

EQUAL EMPLOYMENT OPPORTUNITY SPECIAL FILE
TECHNICAL INFORMATION

Introduction

The data available on the Equal Employment Opportunity (EEO) Special file are based on the 1980 census sample. The data are estimates of the actual figures that would have resulted from a complete count. Estimates can be expected to vary from the complete count result, because they are subject to two basic types of error---sampling and nonsampling. The sampling error in the data arises from the selection of persons and housing units to be included in the sample. The nonsampling error, which affects both sample and complete count data, is the result of all other errors that may occur during the collection and processing phases of the census. A more detailed discussion of both sampling and nonsampling error and a description of the estimation procedure are provided below.

Sample Design

While every person and housing unit in Puerto Rico was enumerated on a questionnaire that requested certain basic demographic information (e.g., age, marital status, relationship), a sample of persons and housing units was enumerated on a questionnaire that requested additional information. The basic sampling unit for the 1980 census was the housing unit, including all occupants. For persons living in group quarters, the sampling unit was the person. One-sixth of the housing units or persons in group quarters were sampled.

The census of Puerto Rico was conducted through a combination of self-enumeration and personal interview. In areas with postal delivery service, an advance census questionnaire, which contained explanatory information and the same questions as the short-form questionnaire, was delivered to every housing unit by postal carrier on his or her route several days before Census Day. In areas without carrier delivery service, questionnaires were available where people picked up their mail. A blank listing book with designated sample lines (every sixth line) was prepared for the enumerator. Beginning about Census Day, the enumerator systematically canvassed the area and listed all housing units in the listing book in the order they were encountered. Completed questionnaires, including sample information for any housing unit which was listed on a designated sample line, were collected.

An enumerator was responsible for a small geographic area known as an enumeration district, or ED. An ED usually represented the average workload area for one enumerator.

Errors in the Data

Since the data in this file are based on a sample, they may differ somewhat from complete-count figures that would have been obtained if all housing units, persons within those housing units, and persons living in group quarters had been enumerated using the same questionnaires, instructions, enumerators, etc. The deviation of a sample estimate from the average of all possible samples is called the sampling error. The standard error of a survey estimate is a measure of the variation among the estimates from the possible samples and thus is a measure of the precision with which an estimate from a particular sample approximates the average result of all possible samples. The sample estimate and its estimated standard error permit the construction of interval estimates with prescribed confidence that the interval includes the average result of all possible samples. The method of calculating standard errors and confidence intervals for the data on the EEO file is given below.

In addition to the variability which arises from the sampling procedures, both sample data and complete-count data are subject to nonsampling error. Nonsampling error may be introduced during each of the many extensive and complex operations used to collect and process census data. For example, operations such as editing, reviewing, or handling questionnaires may introduce error into the data. A more detailed discussion of the sources of nonsampling error is given in the section on "Control of Nonsampling Errors."

Nonsampling error may affect the data in two ways. Errors that are introduced randomly will increase the variability of the data, and should therefore be reflected in the standard error. Errors that tend to be consistent in one direction will make both sample and complete-count data biased in that direction. For example, if respondents consistently tend to underreport their income, then the resulting counts of households or families by income category will be skewed toward the lower income categories. Such biases are not reflected in the standard error.

Calculation of Standard Errors

1. Totals and Percentages. Tables A through C contain the information necessary to calculate the standard errors of sample estimates in this file. In order to perform this calculation, it is necessary to know the unadjusted standard error for the characteristic, given in table A or B, that would result under a simple random sample design (of persons, families, or housing units) and estimation technique; and the adjustment factor for the particular characteristic estimated, shown in table C. The adjustment factors reflect the effects of the actual sample design and complex ratio estimation procedure used for the 1980 census.

To calculate the approximate standard error of an estimate, follow the steps given below.

- a. Obtain the unadjusted standard error from table A or B (or from the formula given below the table) for the estimated total or percentage, respectively;
- b. Use table C (on page 24) to obtain the factor for the characteristic (e.g. occupation, years of school completed, age) and the range that contains the percent in sample with which you are working. Multiply the unadjusted standard error by this factor. If the estimate is a crosstabulation of more than one characteristic, use the largest factor.

As is evident from the formulas below tables A and B, the unadjusted standard errors of zero estimates or of very small estimated totals or percentages approach zero. This is also the case for very large percentages or estimated totals that are close to the size of the tabulation areas to which they correspond. These estimated totals and percentages are, nevertheless, still subject to sampling and nonsampling variability, and an estimated standard error of zero (or very small standard error) is not appropriate.

For estimated percentages that are less than 2 or greater than 98, use the unadjusted standard errors in table 3 that appear in the 2 or 98 row. For an estimated total that is less than 50 or within 50 of the total size of the tabulation area, use an unadjusted standard error of .6.

An illustration using the tables to compute standard errors begins on page 13.

Differences. The standard errors estimated from these tables are not directly applicable to differences between two sample estimates. In order to estimate the standard error of a difference, the tables are to be used somewhat differently in the following three situations.

- a. For the difference between a sample estimate and a complete-count value, use the standard of the sample estimate.
- b. For the difference between (or sum of) two sample estimates, the appropriate standard error is approximately the square root of the sum of the two individual standard errors squared; that is, for standard errors Se_x and Se_y of estimates x and y :

$$Se_{(x+y)} = Se_{(x-y)} = \sqrt{(Se_x)^2 + (Se_y)^2}$$

This method, however, will underestimate (overestimate) the standard error if the two items in a sum are highly positively (negatively) correlated or if the two items in a difference are highly negatively (positively) correlated. This method may also be used for the difference between (or sum of) sample estimates from two censuses or between a census sample and another survey.

- c. For the difference between two estimates, one of which is a subclass of the other, use the tables directly where the calculated difference is the estimate of interest.
3. Means. The standard error of a mean depends upon the variability on which the mean is based, the size of the sample, the sample design (for example, the use of households as a sampling unit), and the estimation procedure used.

An approximation to the standard error of the mean may be obtained as follows: compute the variance of the distribution on which the mean is based; multiply this value by five and divide the product by the total count of units in the distribution; obtain the square root of this quotient and multiply the result by the adjustment factor from table C that is appropriate for the characteristic on which the mean is based.

4. Medians. For the standard error of a median of a characteristic, it is necessary to examine the distribution from which the median is derived, as the size of the base and the distribution itself affect the standard error. An approximate method is given here. As the first step, compute one-half of the number on which the median is based (refer to this result as $N/2$). Treat $N/2$ as if it were an ordinary estimate and obtain its standard error as instructed above using tables A, B, and C. Compute the desired confidence interval about $N/2$. Starting with the lowest value of the characteristic, cumulate the frequencies in each category of the characteristic until the sum equals or first exceeds the lower limit of the confidence interval about $N/2$. By linear interpolation, obtain a value of the characteristic corresponding to this sum. This is the lower limit of the confidence interval of the median. In a similar manner, cumulate frequencies

starting from the highest value of the characteristic until the sum equals or exceeds the count in excess of the upper limit of the interval about $N/2$. Interpolate as before to obtain the upper limit of the confidence interval for the estimated median.

Confidence Intervals

A sample estimate and its estimated standard error may be used to construct confidence intervals about the estimate. These intervals are ranges that will contain the average value of the estimated characteristic that results over all possible samples, with a known probability. For example, if all possible samples that could result under the 1980 census sample design were independently selected and surveyed under the same conditions, and if the estimate and its estimated standard error were calculated for each of these samples, then:

- (1) Approximately 68 percent of the intervals from one estimated standard error below the estimate to one estimated standard error above the estimate would contain the average result from all possible samples; and
- (2) Approximately 95 percent of the intervals from two estimated standard errors below the estimate to two estimated standard errors above the estimate would contain the average result from all possible samples.

The intervals are referred to as 68 percent and 95 percent confidence intervals, respectively.

The average value of the estimated characteristic that could be derived from all possible samples is or is not contained in any particular computed interval. Thus, we cannot make the statement that the average value has a certain probability of falling between the limits of the calculated confidence interval. Rather, one can say with a specified probability or confidence that the calculated confidence interval includes the average estimate from all possible samples (approximately the complete-count value).

Confidence intervals may also be constructed for the difference between two sample figures. This is done by computing the difference between these figures, obtaining the standard error of the differences (using the formula given earlier) and then forming a confidence interval for this estimated difference as above. One can then say with specified confidence that this interval includes the difference that would have been obtained by averaging the results from all possible samples.

The estimated standard errors given on the EEO file do not include all portions of the variability due to nonsampling error that may be present in the data. The standard errors reflect the effect of simple response variance, but not the effect of correlated errors introduced by enumerators, coders, or other field or processing personnel. Thus, the standard errors calculated represent a lower bound of the total error. As a result, confidence intervals formed using these estimated standard errors may not meet the stated levels of confidence (i.e., 68 or 95 percent). Thus, some care must be exercised in the interpretation of the data on the EEO file based on the estimated standard errors.

For more information on confidence intervals and nonsampling error, see any standard sampling theory text.

Use of Tables to Compute Standard Errors

1. The table shows that for [Municipio A] out of all [329,571] persons in the civilian labor force, [12,524] are employed as some type of engineer or engineering technician. The procedure for obtaining the standard error of [12,524] will be demonstrated.

The unadjusted standard error for the estimated total is obtained from table A or from the formula below table A. In order to avoid interpolation, the use of the formula will be demonstrated here. By the formula, the unadjusted standard error, se , is given by

$$se = \left[\sqrt{5} \frac{(12,524)}{470,816} (1 - \frac{12,524}{470,816}) \right] = 247 \text{ persons.}$$

Note: The total count of persons for [Municipio A] is [470,816].

The standard error of the estimated [12,524] persons in the civilian labor force who are engineers or engineering technicians is found by multiplying the unadjusted standard error, [247], by the appropriate adjustment factor. Suppose table C lists the adjustment factor for the characteristic "Occupation" as [1.3]. The estimated standard error is [247] \times [1.3] or [321].

The estimated percent of persons in the civilian labor force employed as engineers or engineering technicians is [3.8]. From table B, the unadjusted standard error is found to be [0.1]. Thus, the standard error for the estimated percent of persons in the civilian labor force employed as engineers is seen to be [1.3] \times [0.1] = [0.13].

A note of caution concerning numerical value is necessary. Standard errors of percentages derived in this manner are approximate. Calculations can be expressed to several decimal places, but to do so would indicate more precision in the data than is justifiable. Final results should contain no more than one decimal place when the estimated standard error is one percentage point (i.e., 1.0) or more.

2. In the previous example, the standard error of the [12,524] persons, in the civilian labor force in [Municipio A] who are engineers or engineering technicians is found to be [321]. Thus, a 95-percent confidence interval for this estimated total is found to be

$$[12,524] - 2 ([321]) \quad \text{to} \quad [12,524] + 2 ([321])$$

or

$$[11,882] \quad \text{to} \quad [13,166].$$

One can say with about 95-percent confidence that this interval includes the value that would have been obtained by averaging the results from all possible samples.

3. The calculation of standard errors and confidence intervals will be illustrated when a difference of two sample estimates is obtained. For example, suppose the number of persons in [another municipio] in the civilian labor force who are engineers or engineering technicians is [12,500] and the total number of persons in the civilian labor force is [250,000]. Thus, the percentage of persons in the civilian labor force who are engineers or engineering technicians is [5] percent. The unadjusted standard error from table 3 is [0.1] percent. From table C, suppose the adjustment factor is [1.5] for "Occupation." The approximate standard error of the percentage (5 percent) is $[0.1] \times [1.5] = [0.15]$.

Suppose that one wishes to obtain the standard error of the difference between the two municipios of the percentages of persons in the civilian labor force who are engineers or engineering technicians.

The difference in the percentages of interest for the two cities is

$$[5.0] - [3.8] = [1.2] \text{ percent}$$

Using the results of the previous example

$$\begin{aligned} Se([1.2]) &= \sqrt{(Se[5.0])^2 + (Se[3.8])^2} \\ &= \sqrt{[0.15]^2 + [0.13]^2} \\ &= [0.20] \text{ percent} \end{aligned}$$

The 95-percent confidence interval for the difference is formed as before.

$$[1.2] - 2[0.20] \text{ to } [1.2] + 2[0.20]$$

or

$$[0.8] \text{ to } [1.6]$$

One can say with 95-percent confidence that the interval includes the difference that would have been obtained by averaging the results from all possible samples.

Estimation Procedure

The estimates which appear on the REO file were obtained from an iterative ratio estimation procedure which resulted in the assignment of a weight to each sample person or housing unit record. For any given tabulation area, a characteristic total was estimated by summing the weights assigned to the persons or housing units in the tabulation area which possessed the characteristic. Estimates of family characteristics were based on the weights assigned to the family members designated as householders. Each sample person or housing unit record was assigned exactly one weight to be used to produce estimates of all characteristics. For example, if the weight given to a sample person or housing unit had the value five, all characteristics of that person or housing unit would be tabulated with a weight of five. The estimation procedure, however, did assign weights which vary from person to person or housing unit to housing unit.

The estimation procedure used to assign the weights was performed in geographically defined "weighting areas." Weighting areas were generally formed of adjoining portions of geography, which closely agreed with census tabulation areas within municipios. Weighting areas were required to have a minimum sample of 400 persons. Weighting areas were never allowed to cross municipal boundaries. In small municipios with a sample count of less than 400 persons, the minimum required sample condition was relaxed to permit the entire municipio to become a weighting area.

Within a weighting area, the ratio estimation procedure for persons was performed in three stages. For persons the first stage employed seventeen household-type groups.

The second stage used two groups: householders and non-householders. The third stage could potentially use 16 age-sex groups. The stages were as follows:

Persons

Stage I - Type of Household

Group Persons in Housing Units With a Family With Own Children Under 18.

- 1 2 persons in housing unit
- 2 3 persons in housing unit
- 3 4 persons in housing unit
- 4 5 to 7 persons in housing unit
- 5 8-or-more persons in housing unit

Persons in Housing Units With a Family Without Own Children Under 18.

- 6-10 2 persons in housing unit through 8-or-more persons in housing unit

Persons in All Other Housing Units

- 11 1 person in housing unit
- 12-16 2 persons in housing unit through 8-or-more persons in housing unit
- 17 Persons in group quarters

Stage II - Householder/Non-householder

Group

- 1 Householder
- 2 Non-householder (including persons in group quarters)

Stage III - Age/Sex

Group

Male

- 1 0 to 4 years of age
- 2 5 to 14 years of age
- 3 15 to 19 years of age
- 4 20 to 24 years of age
- 5 25 to 34 years of age
- 6 35 to 44 years of age
- 7 45 to 64 years of age
- 8 65 years of age or older

Female

- 9-16 Same age categories as groups 1 to 8

Within a weighting area, the first step in the estimation procedure was to assign each sample person record an initial weight. This weight was approximately equal to the inverse of the probability of selecting a person for the census sample.

The next step in the estimation procedure was to combine, if necessary, the groups in each of the three stages prior to the repeated ratio estimation in order to increase the reliability of the ratio estimation procedure. For each stage, any group that did not meet certain criteria concerning the unweighted sample count or the ratio of the complete count to the initially weighted sample count, was combined, or collapsed, with another group in the same stage according to a specified collapsing pattern.

As the final step, the initial weights underwent three stages of ratio adjustment which used the groups listed above. At the first stage, the ratio of the complete census count to the sum of the initial weights for each sample person was computed for each stage I group. The initial weight assigned to each person in a group was then multiplied by the stage I group ratio to produce an adjusted weight. In stage II, the stage I adjusted weights were again adjusted by the ratio of the complete census count to the sum of the stage I weights for sample persons in each stage II group. Finally, the stage II weights were adjusted at stage III by the ratio of the complete census count and the sum of the stage II weights for sample persons in each stage III group. The three stages of adjustment were performed twice (two iterations) in the order given above. The weights obtained from the second iteration for stage III were assigned to the sample person records. However, to avoid complications in rounding for tabulated data, only whole number weights were assigned. For example, if the final weight for the persons in a particular group was 7.2, then one-fifth of the sample persons in this group were randomly assigned a weight of 8 and the remaining four-fifths received a weight of 7.

The ratio estimation procedure for housing units was essentially the same as that for persons. The major difference was that the occupied housing unit ratio estimation procedure was done in two stages and the vacant housing unit ratio estimation procedure was done in one stage. The first stage for occupied housing units employed sixteen household type categories and the second stage could potentially use 19 tenure-value/rent groups. For vacant housing units three groups were utilized. The stages for the ratio estimation for housing units were as follows:

Occupied Housing Units

Stage I - Type of Household

Group Housing Units With A Family With Own Children Under 18

- 1 2 persons in housing unit
- 2 3 persons in housing unit
- 3 4 persons in housing unit
- 4 5 to 7 persons in housing unit
- 5 8-or-more persons in housing unit

Housing Units With A Family Without Own Children Under 18

- 6-10 2 persons in housing unit through 8-or-more persons in housing unit

All Other Housing Units

- 11 1 person in housing unit
- 12-16 2 persons in housing unit through 8-or-more persons in housing unit

Stage II - Tenure/Value or Rent

Group Owner

Value of House

- 1 \$ 0 - \$ 1,999
- 2 \$ 2,000 - \$ 4,999
- 3 \$ 5,000 - \$ 9,999
- 4 \$ 10,000 - \$ 19,999
- 5 \$ 20,000 - \$ 49,999
- 6 \$ 50,000 - \$ 74,999

7 \$ 75,000 or more

8 Other Owners

Renter

Rent Categories

9 \$ 1 - \$ 29

10 \$ 30 - \$ 59

11 \$ 60 - \$ 99

12 \$100 - \$149

13 \$150 - \$199

14 \$200 - \$249

15 \$250 - \$299

16 \$300 - \$399

17 \$400 or more

18 Other Renter

19 No Cash Rent

Vacant housing units

Group

1 Vacant for Rent

2 Vacant for Sale

3 Other Vacant

The estimates produced by this procedure realize some of the gains in sampling efficiency that would have resulted if the population had been stratified into the ratio estimation groups before sampling, and the sampling rate had been applied independently to each group. The net effect is a reduction in both the standard error and the possible bias of most estimated characteristics to levels below what would have resulted from simply using the initial (unadjusted) weight. A by-product of this estimation procedure is that the estimates from the sample will, for the most part, be consistent with the complete count figures for the population and housing unit groups used in the estimation procedure.

Control of Nonsampling Error

As mentioned above, nonsampling error is present in both sample and complete count data. If left unchecked, this error could introduce serious bias into the data, the variability of which could increase dramatically over that which would result purely from sampling. While it is impossible to completely eliminate nonsampling error from

an operation as large and complex as the 1980 census, the Bureau of the Census attempted to control the sources of such error during the collection and processing operations. The primary sources of nonsampling error and the programs instituted for control of this error are described below. The success of these programs, however, was contingent upon how well the instructions were actually carried out during the census. To the extent possible, both the effects of these programs and the amount of error remaining after their application will be evaluated.

Undercoverage. It is possible for some households or persons to be entirely missed by the census. This undercoverage of persons and housing units can introduce biases into the data. Several extensive programs were developed to focus on this important problem.

- . The Postal Service reviewed mailing lists and reported housing unit addresses which were missing, undeliverable, or duplicated in the listings.
- . The purchased commercial mailing list was updated and corrected by a complete field review of the list of housing units during a precanvass operation
- . A record check was performed to reduce the undercoverage of individual persons in selected areas. Independent lists of persons, such as driver's license holders, were matched with the household rosters in the census listings. Persons not matched to the census rosters were followed up and added to the census counts if they were found to have been missed.
- . A recheck of units initially classified as vacant or nonexistent was utilized to further reduce the undercoverage of persons.

More extensive discussions of programs developed to reduce undercoverage will be published as the analyses of those programs are completed.

Respondent and Enumerator Error. The person answering the questionnaire or responding to the questions posed by an enumerator could serve as a source of error by offering incorrect or incomplete information.

To reduce this source of error, questions were phrased as clearly as possible based on precensus tests and detailed instructions for completing the questionnaire were provided to each household. In addition, respondents' answers were edited for completeness and consistency and followed up as necessary. For example, if labor force items were incomplete for a person 15 years or older, long form field edit procedures would recognize the situation and a followup attempt to obtain the information would be made.

The enumerator may misinterpret or otherwise incorrectly record information given by a respondent; may fail to collect some of the information for a person or household; or may collect data for households that were not designated as part of the sample. To control these problems, the work of enumerators was carefully monitored. Field staff were prepared for their tasks by using standardized training packages which included experience in using census materials. A sample of the households interviewed by enumerators for nonresponse were reinterviewed to control for the possibility of data for fabricated persons being submitted by enumerators. Also, the estimation procedure was designed to control for biases that would result from the collection of data from households not designated for the sample.

Processing Error. The many phases involved in processing the census data represent potential sources for the introduction of nonsampling error. The processing of the census questionnaires includes the field editing, followup, and transmittal of completed questionnaires; the manual coding of write-in responses; and the electronic data processing. The various field, coding and computer operations undergo a number of quality control checks to insure their accurate application.

Nonresponse. Nonresponse to particular questions on the census questionnaire allows for the introduction of bias into the data, since the characteristics of the nonrespondents have not been observed and may differ from those reported by respondents. As a result, any allocation procedure using respondent data may not completely reflect this difference either at the element level (individual person or housing unit) or on the average. Some protection against the introduction of large biases is afforded by minimizing non-response. In the census, nonresponse was substantially reduced during the field operations by the various edit and followup operations aimed at obtaining a response for every question. Characteristics for the nonresponses remaining after this operation were allocated by the computer using reported data for a person or housing unit with similar characteristics.

Editing of Unacceptable Data

The objective of the processing operation is to produce a set of statistics that describes the housing unit inventory and population as accurately and clearly as possible. To meet this objective, certain unacceptable entries were edited.

In the field, questionnaires were reviewed for omissions and certain inconsistencies by a census clerk or an enumerator and, if necessary, a followup was made to obtain necessary information. In addition, a similar review was performed by hand only when it could not be done effectively by machine.

As one of the first steps in editing, the configuration of marks on the questionnaire column was scanned electronically to determine whether it contained information for a person or a housing unit or merely spurious marks.

If the column contained entries for at least two of the basic characteristics (relationship, sex, age, marital status), the inference was made that the marks represented a person. In cases in which two or more basic characteristics were available for only a portion of the people in the unit, other information on the questionnaire provided by an enumerator was used to determine the total number of persons. Names were not used as a criterion of the presence of a person because the electronic scanning did not distinguish any entry in the name space.

If any characteristic for a person or a housing unit was still missing when the questionnaire reached the central processing offices, they were supplied by allocation. Allocations, or assignments of acceptable codes in place of unacceptable entries were needed most often when an entry for a given item was lacking or when the information reported for a person or a housing unit on that item was inconsistent with other information for the person or unit. As in previous censuses, the general procedure for changing unacceptable entries was to assign an entry for a person or housing unit that was consistent with entries for other persons or units with similar characteristics. Thus, a person who was reported as a 20-year-old son of the householder, but for whom marital status was not reported, was assigned the same marital status as that of the last son processed in the same age group. The assignment of acceptable codes in place of blanks or unacceptable entries, it is believed, enhances the usefulness of the data.

the editing process also includes another type of correction; namely, the assignment of a full set of characteristics for a person or a housing unit. When there was an indication that a housing unit was occupied but the questionnaire contained no information for all or most of the people, although persons were known to be present, or when there was no information on the housing unit, a previously processed household was selected as a substitute and the full set of characteristics for each substitute person or unit was duplicated. These duplications fall into two classes: (1) "substitution for mechanical failure," e.g., when the questionnaire page was not properly microfilmed, and (2) "substitution for noninterview," e.g., when a housing unit was indicated as occupied but the occupants or housing unit characteristics were not listed on the questionnaire.

Specific tolerances were established for the number of computer allocations and substitutions that would be permitted. If the number of corrections was beyond tolerance, the questionnaires in which the errors occurred were clerically reviewed. If it was found that the errors resulted from damaged questionnaires, from improper microfilming, from faulty reading by FOSDIC of undamaged questionnaires, or from other types of machine failure, the questionnaires were reprocessed.

Table A -- Unadjusted Standard Errors for Retained Totals
 (Based on a 1-in-6 simple random Sample)

Estimated Total 1/	Size of Publication Area 2/										25,000,000		
	500	1,000	2,000	5,000	10,000	20,000	50,000	100,000	250,000	500,000	1,000,000	3,000,000	10,000,000
50	16	16	16	16	16	16	16	16	16	16	16	16	16
100	20	21	22	22	22	22	22	22	22	22	22	22	22
250	25	30	35	35	35	35	35	35	35	35	35	35	35
500	-	35	45	45	50	50	50	50	50	50	50	50	50
1000	-	55	65	65	70	70	70	70	70	70	70	70	70
2500	-	-	80	95	110	110	110	110	110	110	110	110	110
5000	-	-	-	110	140	150	150	160	160	160	160	160	160
10000	-	-	-	-	170	200	210	230	240	240	240	240	240
15000	-	-	-	-	170	230	250	270	270	270	270	270	270
25000	-	-	-	-	-	250	310	340	350	350	350	350	350
75000	-	-	-	-	-	-	310	510	570	590	610	610	610
100000	-	-	-	-	-	-	-	550	630	670	700	770	770
250000	-	-	-	-	-	-	-	-	790	970	1090	1190	1190
500000	-	-	-	-	-	-	-	-	-	1130	1500	1540	1570
1000000	-	-	-	-	-	-	-	-	-	-	2030	2120	2190
5000000	-	-	-	-	-	-	-	-	-	-	-	3540	4470
10000000	-	-	-	-	-	-	-	-	-	-	-	-	5480

1/ For estimated totals larger than 10,000,000, the standard error is assumed larger than the table values. The formula given below should be used to calculate the standard error.

2/ Total count of persons in area if the estimated total is a person characteristic or the total count of housing units in area if the estimated total is a housing unit characteristic.

$$\text{Se } (\hat{Y}) = \sqrt{\frac{A}{N} (1 - \frac{C}{N})}$$

N = Size of Area

\hat{Y} = Estimate of characteristic total.

Table B - Unadjusted Standard Error in Percentage Points for Estimated Percentages
 (Based on a 1-in-6 Simple Random Sample)

Estimated Percent	Base of Percentage*											
	500	750	1,000	1,500	2,500	5,000	7,500	10,000	25,000	50,000	100,000	250,000
2 or 98	1.4	1.1	1.0	.9	.6	.4	.4	.3	.2	.1	-.1	-.1
5 or 95	2.2	1.8	1.5	1.3	1.0	.7	.6	.5	.3	-.2	2	-.1
10 or 90	3.0	2.4	2.1	1.7	1.3	.9	.8	.7	.4	.3	-.2	-.1
15 or 85	3.6	2.9	2.5	2.1	1.6	1.1	.9	.8	.5	.4	-.3	-.2
20 or 80	4.0	3.3	2.8	2.3	1.8	1.3	1.0	.9	.6	.4	3	2
25 or 75	4.3	3.5	3.1	2.5	1.9	1.4	1.1	1.0	.6	4	-.3	-.2
30 or 70	4.6	3.7	3.2	2.6	2.0	1.5	1.2	1.0	.6	5	-.3	-.2
35 or 65	4.8	3.9	3.4	2.8	2.1	1.5	1.2	1.1	.7	5	-.3	-.2
50	5.0	4.0	3.5	2.9	2.2	1.6	1.3	1.1	.7	.5	4	2

* For a percentage and/or base of percentage not shown in the table, the formula given below may be used to calculate the standard error.

$$se(\hat{p}) = \sqrt{\frac{s}{B} \hat{p} (1.00 - \hat{p})}$$

B = Base of Estimated Percentage

\hat{p} = Estimated Percentage

Table C--Standard Error Adjustment Factors
for Puerto Rico

<u>Characteristic</u>	<u>Factor</u>
Age and Sex	1.2
Occupation	1.1
Years of School Completed	1.2

USEFUL THINGS TO KNOW
ABOUT THIS FILE

Industry Coding of Occupational Groups

In table 1, the table universe is not the sum of categories 1 to 514 for males and females. In two instances, workers are tabulated by occupation, then the occupational categories are subdivided by industry. The first situation occurs in cells (1,450-1,454) for males and cells (2,450-2,454) for females. "Miscellaneous and Not Specified Machine Operators" are tabulated by occupation in cells (1,450-1,451) for males and cells (2,450-2,451) for females. They are also tabulated by industry in cells (1,452-1,454) for males and cells (2,452-2,454) for females. Therefore, the sum of cells (1,450-1,451) should equal the sum of cells (1,452-1,454). Likewise, the sum of cells (2,450-2,451) should equal the sum of cells (2,452-2,454). See figure 2 below for an illustration of this example.

Figure 2. Example of Tabulation of Occupation Category for "Miscellaneous and Not Specified Machine Operators" by Industry.

(1,450)	Miscellaneous and Not Specified
(1,451)	Machine Operators:
	Occupations:
	Miscellaneous Machine Operators, N.E.C.
	Machine Operators, Not Specified
	Industry:
	Manufacturing:
(1,452)	Non durable Goods
(1,453)	Durable Goods
(1,454)	Nonmanufacturing Industries

The second instance occurs in cells (1,508-1,513) for males and in cells (2,508-2,513) for females. "Laborers, Except Construction" are tabulated by occupation in cells (1,508) for males and in cells (2,508) for females. The same groups are also tabulated by industry in cells (1,509-1,513) for males and in cells (2,509-2,513) for females. Therefore, the sum of cells (1,509-1,513) should equal the number in cell (1,508) for males and the sum of cells (2,509-2,513) should equal the number in cell (2,508) for females. See Figure 3 below for an illustration of this example.

Figure 3. Example of Tabulation of Occupation Category for "Laborers, Except Construction" by Industry.

(1,508)	Laborers, Except Construction
(1,509)	Manufacturing:
(1,510)	Non durable Goods
(1,511)	Durable Goods
(1,512)	Transportation, Communications,
(1,513)	and Other Public Utilities
	Wholesale and Retail Trade
	All Other Industries

HOW TO USE THE DATA DICTIONARY

The data dictionary contains complete information regarding geographic codes, table information, and a detailed table layout. The following is an outline of information provided in both the geographic and table identification portions of the file.

Geographic Identification

The first line of each geographic identification variable gives the name, size/scale, begin position, and the variable label. Following those items, on subsequent lines, are any applicable notes and value codes. Each of these items is defined below.

1. Name. This is an arbitrarily assigned 8-character identifier. It may be a mnemonic such as "STATE" or "EDNUMBER", or a sequential identifier such as "TAB1", "TAB2", etc.
2. Size/Scale. The size of a data item is given in characters.
3. Begin. This is the location in the data record of the first character of the data item.
4. Data Type. The data type (A) indicates that the data item is represented by an alphanumeric code.
5. Description. Following the Data Type is a description of the data item. This heading is not labeled on the data dictionary. This section also provides any relevant notes or footnote references. In addition, any value codes necessary for the data item are listed and labeled here.

Table Identification

The documentation of tables begins with the name, size/scale, begin position, data type, and the number of cells. This information is followed by the table title, universe definition, stratifier identification, and a listing of the cells. These items are defined below.

The size/scale information is the same as defined on the previous page for geographic identification. Any scale value identified here applies to all cells of the table.

This item identifies the location of each cell in the table.

The symbol "N" denotes that an actual figure is provided. This item could be summarized or aggregated.

NAME	SIZE/ SCALE	BEGIN	DATA TYPE	NUMBER OF CELLS
TABLE 1 (TAB1)	8	49	N	1028

SEX (2) BY DRAFTED OCCUPATION (514)

UNIVERSE: CIVILIAN LABOR FORCE

TAB1

MALE:

EXECUTIVE, ADMINISTRATIVE, AND
MANAGERIAL OCCUPATIONS:

(1,1) 49 LEGISLATORS

This is an identifier of the table number. The convention used here, shown in parentheses, is to follow "TAB" with the table number, which identifies the data item as a table for CENSPAC.

This is the unique identifier for this cell. It is used primarily by CENSPAC users.

This item gives the total number of data items, or cells, in the table. The number of cells is the product of the number of categories in each stratifier in the table.

EEO	DATA DICTIONARY RECORD 01				EEO	DATA DICTIONARY RECORD 01			
NAME	SIZE/ SCALE	BEGIN	DATA TYPE		NAME	SIZE/ SCALE	BEGIN	DATA TYPE	
FIPPOST	2	1	A	PIPS STATE CODE	TABLE 1 (TABLE)	6	49	N	NUMBER OF CELLS
				PUERTO RICO					1028
MUNICO	3	5	A	CENSUS MUNICIPIO CODE (SEE APPENDIX B)	SEX (2) BY DETAILED OCCUPATION (514)				UNIVERSE: CIVILIAN LABOR FORCE
FIPSSM	4	6	A	PIPS SMSA CODE (SEE APPENDIX B)	TAB1				THE STRATIFIERS ARE SEX BY DETAILED OCCUPATION
PLACE	4	10	A	CENSUS PLACE CODE (SEE APPENDIX B)		(1,1)	49	LEGISLATORS	HALF: EXECUTIVE, ADMINISTRATIVE, AND MANAGERIAL OCCUPATIONS:
				PUERTO RICO RECORD		(1,2)	57	CHIEF EXECUTIVES AND GENERAL ADMINISTRATORS; PUBLIC ADMINISTRATION ADMINISTRATORS AND OFFICIALS; PUBLIC ADMINISTRATION	
RECtyp	2	14	A	GEOGRAPHIC RECORD TYPE		(1,3)	65	ADMINISTRATORS; PROTECTIVE SERVICES FINANCIAL MANAGERS	
				MUNICIPIO RECORD		(1,4)	73	PERSONNEL AND LABOR RELATIONS MANAGERS	
				SMSA RECORD		(1,5)	81	PURCHASING MANAGERS	
				PLACE RECORD (PLACES OF 50,000+ ONLY)		(1,6)	89	MANAGERS, MARKETING, ADVERTISING, AND PUBLIC RELATIONS	
						(1,7)	97	ADMINISTRATORS; EDUCATION AND RELATED FIELDS	
						(1,8)	105	MANAGERS, MEDICINE AND HEALTH MANAGERS, PROPERTIES AND REAL ESTATE POSTMASTERS AND MAIL SUPERINTENDENTS	
RECORD	2	16	A	RECORD INDICATOR		(1,9)	113	FUNERAL DIRECTORS MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	
				TOTAL CIVILIAN LABOR FORCE		(1,10)	121	MANAGERS, MEDICINE AND HEALTH MANAGERS, PROPERTIES AND REAL ESTATE POSTMASTERS AND MAIL SUPERINTENDENTS	
						(1,11)	129	FUNERAL DIRECTORS MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	
						(1,12)	137	MANAGERS, MEDICINE AND HEALTH MANAGERS, PROPERTIES AND REAL ESTATE POSTMASTERS AND MAIL SUPERINTENDENTS	
						(1,13)	145	FUNERAL DIRECTORS MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	
						(1,14)	163	MANAGERS, MEDICINE AND HEALTH MANAGERS, PROPERTIES AND REAL ESTATE POSTMASTERS AND MAIL SUPERINTENDENTS	
						(1,15)	161	FUNERAL DIRECTORS MANAGERS AND ADMINISTRATORS, N.E.C., SALARIED MANAGERS AND ADMINISTRATORS, N.E.C., SELF-EMPLOYED	
AREA	30	19	A	AREA NAME		(1,16)	169	MANAGEMENT RELATED OCCUPATIONS:	
						(1,17)	177	ACCOUNTANTS AND AUDITORS UNDERWRITERS	
						(1,18)	185	OTHER FINANCIAL OFFICERS	
						(1,19)	193	MANAGEMENT ANALYSTS	
						(1,20)	201	PERSONNEL, TRAINING, AND LABOR RELATIONS SPECIALISTS	
						(1,21)	209	PURCHASING AGENTS AND BUYERS, FARM PRODUCTS	
						(1,22)	217	BUYERS, WHOLESALE AND RETAIL TRADE EXCEPT FARM PRODUCTS	

SEQ	DATA DICTIONARY	03/24/83	EED	DATA DICTIONARY	03/24/83		
RECORD 01				RECORD 01			
NAME	SIZE/ SCALE	BEGIN DATA	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN DATA	NUMBER OF CELLS
(1,23)	225	PURCHASING AGENTS AND BUYERS, N.E.C.	(1,50)	DENTISTS	505		
(1,24)	233	BUSINESS AND PROMOTION AGENTS	(1,59)	VETERINARIANS	513		
(1,25)	241	CONSTRUCTION INSPECTORS	(1,60)	OPTOMETRISTS	521		
(1,26)	249	INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUCTION	(1,61)	PODIATRISTS	529		
[1,27]	257	MANAGEMENT RELATED OCCUPATIONS, N.E.C.	(1,62)	HEALTH DIAGNOSING PRACTITIONERS, N.E.C.	537		
		PROFESSIONAL SPECIALTY OCCUPATIONS:		HEALTH ASSESSMENT AND TREATING OCCUPATIONS:			
(1,28)	265	ENGINEERS, ARCHITECTS, AND SURVEYORS: ARCHITECTS	(2,63) (1,64)	REGISTERED NURSES	545		
(1,29)	273	AEROSPACE METALLURGICAL AND MATERIALS	(2,64) (2,65)	PHARMACISTS	553		
(1,30)	281	METALLURGICAL AND MATERIALS	(2,67)	DIETITIANS	561		
(1,31)	289	MINING	(2,68)	THERAPISTS:			
(1,32)	297	PETROLEUM	(2,69)	INHALATION THERAPISTS	569		
(1,33)	305	CHEMICAL	(2,70)	OCCUPATIONAL THERAPISTS	577		
(1,34)	313	NUCLEAR	(2,71)	PHYSICAL THERAPISTS	585		
(1,35)	321	CIVIL		SPEECH THERAPISTS	593		
(1,36)	329	AGRICULTURAL		THERAPISTS, N.E.C.	601		
(1,37)	337	ELECTRICAL AND ELECTRONIC		PHYSICIANS ASSISTANTS	609		
(1,38)	345	INDUSTRIAL	(1,72)	TEACHERS, POSTSECONDARY:			
(1,39)	353	MECHANICAL	(1,73)	EARTH, ENVIRONMENTAL, AND MARINE	617		
(1,40)	361	MARINE AND NAVAL ARCHITECTS	(2,74)	SCIENCE TEACHERS			
(1,41)	369	ENGINEERS, N.E.C.	(2,75)	BIOLOGICAL SCIENCE TEACHERS	625		
(1,42)	377	SURVEYORS AND MAPPING SCIENTISTS	(2,76)	CHEMISTRY TEACHERS	633		
		MATHEMATICAL AND COMPUTER SCIENTISTS:	(1,77)	PHYSICS TEACHERS	641		
(1,43)	385	COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	(1,78)	NATURAL SCIENCE TEACHERS, N.E.C.	649		
(1,44)	393	OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS	(1,79)	PSYCHOLOGY TEACHERS	657		
(1,45)	401	ACTUARIES	(1,80)	ECONOMICS TEACHERS	665		
(1,46)	409	STATISTICIANS	(1,81)	HISTORY TEACHERS	673		
(1,47)	417	MATHEMATICAL SCIENTISTS, N.E.C.	(1,82)	POLITICAL SCIENCE TEACHERS	681		
(1,48)	425	NATURAL SCIENTISTS:	(1,83)	SOCIOLOGY TEACHERS	689		
(1,49)	433	PHYSICISTS AND ASTRONOMERS	(1,84)	SOCIAL SCIENCE TEACHERS, N.E.C.	697		
(1,50)	441	CHEMISTS, EXCEPT BIOCHEMISTS	(1,85)	ENGINEERING TEACHERS	705		
(1,51)	449	ATMOSPHERIC AND SPACE SCIENTISTS	(1,86)	MATHEMATICAL SCIENCE TEACHERS	713		
(1,52)	457	GEODEISTS AND GEODESISTS	(1,87)	COMPUTER SCIENCE TEACHERS	721		
(1,53)	465	PHYSICAL SCIENTISTS, N.E.C.	(1,88)	PHYSICAL SCIENCE TEACHERS	729		
(1,54)	473	AGRICULTURAL AND FOOD SCIENTISTS	(1,89)	HEALTH SPECIALTIES TEACHERS	737		
(1,55)	481	BIODIGITAL AND LIFE SCIENTISTS	(1,90)	BUSINESS, COMMERCE, AND MARKETING	745		
(1,56)	489	FORESTRY AND CONSERVATION SCIENTISTS	(1,91)	TEACHERS	753		
		MEDICAL SCIENTISTS	(1,92)	AGRICULTURE AND FORESTRY TEACHERS	761		
(1,57)	497	PHYSICIANS	(1,93)	ART, DRAMA, AND MUSIC TEACHERS	769		
		HEALTH DIAGNOSING OCCUPATIONS:		PHYSICAL EDUCATION TEACHERS	777		
				EDUCATION TEACHERS	785		
				ENGLISH TEACHERS	793		
				FOREIGN LANGUAGE TEACHERS	801		
				LAW TEACHERS	809		
				SOCIAL WORK TEACHERS	817		

EEO	DATA DICTIONARY	03/24/83		EEO	DATA DICTIONARY	03/24/83
RECORD 01			RECORD 01			
NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE
(1,97)	617	THEOLOGY TEACHERS	(1,128)	(1,128)	1065	DANERS
(1,98)	825	TRADE AND INDUSTRIAL TEACHERS	(1,129)	(1,129)	1073	ARTISTS, PERFORMERS, AND RELATED WORKERS, N.E.C.
(1,99)	633	HOME ECONOMICS TEACHERS	(1,130)	(1,130)	1081	EDITORS, AND REPORTERS
(1,100)	841	TEACHERS, POSTSECONDARY, N.E.C.	(1,131)	(1,131)	1089	PUBLIC RELATIONS SPECIALISTS
(1,101)	849	POSTSECONDARY TEACHERS, SUBJECT NOT SPECIFIED	(1,132)	(1,132)	1097	ANNOUNCERS
		TEACHERS, EXCEPT POSTSECONDARY:			1105	ATHLETES
(1,102)	857	TEACHERS, PREKINDERGARTEN AND KINDER-GARTEN				TECHNICIANS AND RELATED SUPPORT OCCUPATIONS:
(1,103)	665	TEACHERS, ELEMENTARY SCHOOL	(1,134)		1113	HEALTH TECHNOLOGISTS AND TECHNICIANS:
(1,104)	673	TEACHERS, SECONDARY SCHOOL	(1,135)		1121	CLINICAL LABORATORY TECHNOLOGISTS AND TECHNICIANS
(1,105)	681	TEACHERS, SPECIAL EDUCATION	(1,136)		1129	DENTAL HYGIENISTS
(1,106)	889	TEACHERS, N.E.C.	(1,137)		1137	RADIOLOGIC TECHNICIANS
(1,107)	897	COUNSELORS, EDUCATIONAL AND VOCATIONAL LIBRARIANS, ARCHIVISTS, AND CURATORS:	(1,138)		1145	LICENSED PRACTICAL NURSES
(1,108)	905	LITERARIANS	(1,139)		1153	HEALTH TECHNOLOGISTS AND TECHNICIANS, N.E.C.
(1,109)	913	ARCHIVISTS AND CURATORS				TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH:
		SOCIAL SCIENTISTS AND URBAN PLANNERS:				ENGINEERING AND RELATED TECHNOLOGISTS:
(1,110)	921	ECONOMISTS	(1,140)		1161	ELECTRICAL AND ELECTRONIC TECHNOLOGISTS
(1,111)	929	PSYCHOLOGISTS	(1,141)		1169	INDUSTRIAL ENGINEERING TECHNICIANS
(1,112)	937	SOCIOLOGISTS	(1,142)		1177	MECHANICAL ENGINEERING TECHNICIANS
(1,113)	945	SOCIAL SCIENTISTS, N.E.C.	(1,143)		1185	ENGINEERING TECHNICIANS, N.E.E.
(1,114)	953	URBAN PLANNERS	(1,144)		1193	DRAFTING OCCUPATIONS
		SOCIAL, RECREATION, AND RELIGIOUS WORKERS:	(1,145)		1201	SURVEYING AND MAPPING TECHNICIANS
(1,115)	961	SOCIAL WORKERS	(1,146)			SCIENCE TECHNICIANS:
(1,116)	969	RECREATION WORKERS	(1,147)			BIOLOGICAL TECHNICIANS
(1,117)	977	CLERGY	(1,148)			CHEMICAL TECHNICIANS
(1,118)	985	RELIGIOUS WORKERS, N.E.C.				SCIENCE TECHNICIANS, N.E.C.
		LAWYERS AND JUDGES:				TECHNICIANS; EXCEPT HEALTH, ENGINEERING AND SCIENCE:
(1,119)	993	LAWYERS	(1,149)		1233	AIRPLANE PILOTS AND NAVIGATORS
(1,120)	1001	JUDGES	(1,150)		1241	AIR TRAFFIC CONTROLLERS
		WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES:			1249	BROADCAST EQUIPMENT OPERATORS
(1,121)	1009	AUTHORS	(1,151)		1257	COMPUTER PROGRAMMERS
(1,122)	1017	TECHNICAL WRITERS	(1,152)		1265	TOOL PROGRAMMERS, NUMERICAL CONTROL
(1,123)	1025	DESIGNERS	(1,153)		1273	LEGAL ASSISTANTS
(1,124)	1033	MUSICIANS AND COMPOSERS	(1,154)		1281	TECHNICIANS, N.E.C.
(1,125)	1041	ACTORS AND DIRECTORS	(1,155)			
(1,126)	1049	PAINTERS, SCULPTORS, CRAFT-ARTISTS, AND ARTIST PRINTMAKERS	(1,156)			
(1,127)	1057	PHOTOGRAPHERS	(1,157)			

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RECORD 01				RECORD 01			
NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
(1,156)	1289	SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS, SALARIED	SALES OCCUPATIONS:	(1,178)	1465	AUCTIONEERS	
(1,157)	1297	SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS, SELF-EMPLOYED	(1,179)	1473	SALES SUPPORT OCCUPATIONS, N.E.C.		
						ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL:	
						SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS;	
[1,158]	1305	SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES:	(1,180)	1481	SUPERVISORS, GENERAL OFFICE		
[1,159]	1315	INSURANCE SALES OCCUPATIONS	(1,181)	1489	SUPERVISORS, COMPUTER EQUIPMENT OPERATORS		
(1,160)	1321	REAL ESTATE SALES OCCUPATIONS	(1,182)	1497	SUPERVISORS, FINANCIAL RECORDS PROCESSING		
(1,161)	1329	SECURITIES AND FINANCIAL SERVICES SALES OCCUPATIONS	(1,183)	1505	CHIEF COMMUNICATIONS OPERATORS		
(1,162)	1337	ADVERTISING AND RELATED SALES OCCUPATIONS	(1,184)	1513	SUPERVISORS, DISTRIBUTION, SCHEDULING AND ADJUSTING CLERKS		
						COMPUTER EQUIPMENT OPERATORS:	
						COMPUTER EQUIPMENT OPERATORS	
						COMPUTER OPERATORS	
						PERIPHERAL EQUIPMENT OPERATORS	
(1,163)	1345	SALES REPRESENTATIVES, COMMUNITIES EXCEPT RETAIL:	(1,185)	1521	INTERVIEWERS		
(1,164)	1353	SALES ENGINEERS	(1,186)	1529	HOTEL CLERKS		
		SALES REPRESENTATIVES, MINING, MANUFACTURING, AND WHOLESALE	(1,187)	1537	TRANSPORTATION TICKET AND RESERVATION AGENTS		
		SALES WORKERS, RETAIL AND PERSONAL SERVICES:	(1,188)	1545	RECEPTIONISTS		
		SALES WORKERS, MOTOR VEHICLES AND BOATS	(1,189)	1553	INFORMATION CLERKS, N.E.C.		
(1,165)	1361	SALES WORKERS, APPAREL	(1,190)	1561	INFORMATION CLERKS:		
(1,166)	1369	SALES WORKERS, SHOES	(1,191)	1569	INTERVIEWERS		
(1,167)	1377	SALES WORKERS, FURNITURE AND HOME FURNISHINGS	(1,192)	1577	HOTEL CLERKS		
(1,168)	1385	SALES WORKERS, RADIO, TV, HI-FI, AND APPLIANCES	(1,193)	1585	TRANSPORTATION TICKET AND RESERVATION AGENTS		
(1,169)	1393	SALES WORKERS, HARDWARE AND BUILDING SUPPLIES	(1,194)	1593	RECEPTIONISTS		
(1,170)	1401	SALES WORKERS, PARTS	(1,195)	1601	INFORMATION CLERKS, N.E.C.		
(1,171)	1409	SALES WORKERS, OTHER COMMODITIES	(1,196)	1609	CLASSIFIED-AD CLERKS		
(1,172)	1417	SALES WORKERS, OTHER COMMODITIES	(1,197)	1617	CORRESPONDENCE CLERKS		
(1,173)	1425	SALES COUNTER CLERKS	(1,198)	1625	ORDER CLERKS		
(1,174)	1433	CASHIERS	(1,199)	1633	PERSONNEL CLERKS, EXCEPT PAYROLL AND TIMEKEEPING		
(1,175)	1441	STREET AND DOOR-TO-DOOR SALES WORKERS	(1,200)	1641	LIBRARY CLERKS		
(1,176)	1449	NEWS VENDORS	(1,201)	1649	FILE CLERKS		
		SALES RELATED OCCUPATIONS:			RECORDS CLERKS		
(1,177)	1457	DIMONSTRATORS, PROMOTERS AND MODELS, SALES			FINANCIAL RECORDS PROCESSING OPERATIONS:		
					BOOKKEEPERS, ACCOUNTING AND AUDITING CLERKS		

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RECORD 01				RECORD 01			
NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
(1,203)	1665	PAYROLL AND TIMEKEEPING CLERKS		MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS:			
(1,204)	1673	BILLING CLERKS	[1,230]	GENERAL OFFICE CLERKS	1861		
(1,205)	1681	COST AND RATE CLERKS	[1,231]	BANK TELLERS	1889		
(1,206)	1689	BILLING, POSTING, AND CALCULATING MACHINE OPERATORS	[1,232]	PROOFREADERS	1897		
		DUPLEXING, MAIL AND OTHER OFFICE MACHINE OPERATORS:	[1,233]	DATA ENTRY KEYERS	1905		
		DUPLEXING, MACHINE OPERATORS:	[1,234]	STATISTICAL CLERKS	1913		
		MAIL, PREPARING AND PAPER HANDLING MACHINE OPERATORS	[1,235]	TEACHERS' AIDS	1921		
		OFFICE MACHINE OPERATORS, N.E.C.	[1,236]	ADMINISTRATIVE SUPPORT OCCUPATIONS, N.E.C.	1929		
		PRIVATE HOUSEHOLD OCCUPATIONS:					
				LAUNDERERS AND IRONERS			
				COOKS, PRIVATE HOUSEHOLD	1937		
				HOUSEKEEPERS AND BUTLERS	1945		
				CHILD CARE WORKERS, PRIVATE	1953		
				HOUSEHOLD CLEANERS	1961		
				PRIVATE HOUSEHOLD CLEANERS	1969		
				AND SERVANTS			
		PROTECTIVE SERVICE OCCUPATIONS:					
				SUPERVISORS, PROTECTIVE SERVICE OCCUPATIONS:			
				SUPERVISORS, FIREFIGHTING AND FIRE PREVENTION OCCUPATIONS			
				SUPERVISORS, POLICE AND DETECTIVES			
				FIREFIGHTING AND FIRE PREVENTION OCCUPATIONS:			
				FIRE INSPECTION AND FIRE PREVENTION OCCUPATIONS			
				POLICE AND DETECTIVES:			
				SHERIFFS, BAILIFFS, AND OTHER LAW ENFORCEMENT OFFICERS			
				CORRECTIONAL INSTITUTION OFFICERS			
		GUARDS:					
				CROSSING GUARDS			
				GUARDS AND POLICE, EXC.			
				FUEL-OIL SERVICE			
				PROTECTIVE SERVICE OCCUPATIONS, N.E.C.			

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	RECORD D1			RECORD D1			
NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND PRIVATE HOUSEHOLD:							
				11,230)			PERSONAL SERVICE OCCUPATIONS, N.E.C.
							FARMING, FORESTRY, AND FISHING OCCUPATIONS:
							FARM OPERATORS AND MANAGERS:
(1,253)	2065		SUPERVISORS, FOOD PREPARATION AND SERVICE OCCUPATIONS:	(1,261)			FARMERS, EXCEPT HORTICULTURAL
(1,254)	2073		SERVICE OCCUPATIONS	(1,282)			HORTICULTURAL SPECIALTY FARMERS
(1,255)	2081		BARTENDERS	(1,283)			MANAGERS, FARMS, EXCEPT HORTICULTURAL
(1,256)	2089		WAITERS AND WAITRESSES	(1,284)			MANAGERS, HORTICULTURAL SPECIALTY FARMS
(1,257)	2097		COOKS, EXCEPT SHORT ORDER COOKS				
(1,258)	2105		FOOD COUNTER, FOUNTAIN AND RELATED OCCUPATIONS				FARM OCCUPATIONS, EXCEPT MANAGERIAL:
(1,259)	2113		KITCHEN WORKERS, FOOD PREPARATION	(1,285)			SUPERVISORS, FARM WORKERS
(1,260)	2121		WAITERS / WAITRESSES ASSISTANTS	(1,286)			FARM WORKERS
(1,261)	2129		MISCELLANEOUS FOOD PREPARATION OCCUPATIONS	(1,287)			PLANT LIFE CULTIVATION WORKERS
				(1,288)			NURSERY WORKERS
							RELATED AGRICULTURAL OCCUPATIONS:
							SUPERVISORS, RELATED AGRICULTURAL OCCUPATIONS
							GROUNDCAREPERS AND GARDENERS, EXCEPT FARM
							ANIMAL CARETAKERS, EXCEPT FARM GRAZERS AND SORTERS, AGRICULTURAL
							PRODUCTS INSPECTORS, AGRICULTURAL PRODUCTS
							FORESTRY AND LOGGING OCCUPATIONS:
							SUPERVISORS, FORESTRY AND LOGGING WORKERS
							FORESTRY WORKERS, EXCEPT LOGGING
							TIMBER CUTTING AND LOGGING OCCUPATIONS
							FIGHTERS, HUNTERS, AND TRAPPERS:
							CAPTAINS AND OTHER OFFICERS, FISHING VESSELS
							FISHERS
							HUNTERS AND TRAPPERS
							PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS:
							MECHANICS AND REPAIRERS:
							SUPERVISORS, MECHANICS AND REPAIRERS
							MECHANICS AND REPAIRERS, EXCEPT SUPERVISORS:

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RECORD 01			RECORD 01				
NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
(1,301)	2449		VEHICLE AND MOBILE EQUIPMENT MECHANICS AND REPAIRERS: AUTOMOBILE MECHANICS, EXC. APPRENTICES				CONSTRUCTION TRADES:
(1,302)	2457		AUTOMOBILE MECHANIC APPRENTICES BUS, TRUCK, AND STATIONARY ENGINE MECHANICS	(1,357)	2657		SUPERVISORS, CONSTRUCTION OCCUPATIONS
(1,303)	2465		AIRCRAFT ENGINE MECHANICS SMALL ENGINE REPAIRERS	(1,328)	2665	SUPERVISORS, BRICKMASTERS, STONE- MASTERS, AND TILE SETTERS	
(1,304)	2473		AUTOMOBILE BODY AND RELATED REPAIRERS	(1,329)	2673	SUPERVISORS, CARRIERS AND RELATED WORKERS	
(1,305)	2481		AIRCRAFT MECHANICS, EXC. ENGINE HEAVY EQUIPMENT MECHANICS	(1,130)	2681	SUPERVISORS, ELECTRICIANS AND POWER TRANSMISSION INSTALLERS	
(1,306)	2489		FARM EQUIPMENT MECHANICS	(1,351)	2689	SUPERVISORS, PAINTERS, PAPERHANGERS AND BLASTERS	
(1,307)	2497		INDUSTRIAL MACHINERY REPAIRERS	(1,332)	2697	SUPERVISORS, PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	
(1,308)	2505		MACHINERY MAINTENANCE OCCUPATIONS			SUPERVISORS, N.E.C.	
(1,309)	2513		ELECTRICAL AND ELECTRONIC EQUIPMENT REPAIRERS:			CONSTRUCTION TRADES, EXCEPT SUPERVISORS:	
(1,310)	2521		INDUSTRIAL EQUIPMENT REPAIRERS	(1,333)	2705	BRICKMASTERS AND STONEMASERS, EXCEPT APPRENTICES	
(1,311)	2529		MACHINERY MAINTENANCE OCCUPATIONS	(1,334)	2713	BRICKMASTERS AND STONEMASON APPRENTICE	
(2)	2537		ELECTRONIC EQUIPMENT REPAIRERS, COMMUNICA- TIONS AND INDUSTRIAL EQUIPMENT	(1,335)	2721	TILE SETTERS, HARD AND SOFT	
(1,313)	2545		DATA PROCESSING EQUIPMENT REPAIRER	(1,335)	2729	CARPET INSTALLERS	
(1,314)	2553		HOUSEHOLD APPLIANCE AND POWER TOOL REPAIRERS	(1,336)	2737	CARPENTER APPRENTICES	
(1,315)	2561		TELEPHONE LINE INSTALLERS AND REPAIRERS	(1,337)	2745	DRYWALL INSTALLERS	
(1,316)	2569		TELEPHONE INSTALLERS AND REPAIRERS	(1,338)	2753	ELECTRICIANS, EXCEPT APPRENTICES	
(1,317)	2577		HISCELLANEOUS ELECTRICAL, AND ELECTRONIC EQUIPMENT REPAIRERS	(1,340)	2761	ELECTRICAL POWER INSTALLERS AND REPAIERS	
(1,318)	2585		HEATING, AIR CONDITIONING, AND REFRIGERATION MECHANICS	(1,341)	2769	ELECTRICAL POWER INSTALLERS AND REPAIERS	
(1,319)	2593		MISCELLANEOUS MECHANICS AND REPAIRERS:	(1,342)	2777	ELECTRICAL POWER INSTALLERS AND REPAIERS	
(1,320)	2601		HEAT REPAIRERS	(1,343)	2785	MAINTENANCE	
(2,321)	2609		LOCKSMITHS AND SAFE REPAIRERS	(1,344)	2793	PAPERHANGERS	
(1,322)	2617		OFFICE MACHINE REPAIRERS	(1,345)	2801	PLASTERERS	
(1,323)	2625		MECHANICAL CONTROLS AND VALVE REPAIRERS	(1,346)	2809	PLUMBERS, EXCEPT APPRENTICES	
(1,324)	2633		ELEVATOR INSTALLERS AND REPAIRERS	(1,347)	2817	PIPEFITTER, PIPEFITTER, AND STEAM- FITTER APPRENTICES	
(1,325)	2641		MILLwrights				
(1,326)	2649		SPECIFIED MECHANICS AND REPAIRERS, N.E.C.	(1,348)	2825	CONCRETE AND TERRAZZO FINISHERS	
			NOT SPECIFIED MECHANICS AND REPAIRERS	(1,349)	2833	GLAZIERS	
				(1,350)	2841	INSULATION WORKERS	
				(1,351)	2849	PAVING, SURFACING, AND TAMPING	
				(1,352)	2857	ROOFERS	
				(1,353)	2865	SHEETMETAL DUCT INSTALLERS	
				(1,354)	2873	STRUCTURAL METAL WORKERS	
				(1,355)	2881	DRILLERS, EARTH	
				(1,356)	2889	CONSTRUCTION TRADES, N.E.C.	

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(1,406)	3289	PUNCHING AND STAMPING PRESS MACHINE OPERATORS	(1,434)	(1,434)
(1,407)	3297	ROLLING MACHINE OPERATORS		
(1,408)	3308	DRILLING AND BORING MACHINE OPERATOR		
(1,409)	3313	GRINDING, ABRADING, BUFFING, AND POLISHING MACHINE OPERATORS	(1,435)	(1,435)
(1,410)	3321	FORGING MACHINE OPERATORS	(1,436)	(1,436)
(1,411)	3329	MACHINERY CONTROL MACHINE OPERATORS		
(1,412)	3337	MISCELLANEOUS METAL, PLASTIC, STONE, AND GLASS WORKING MACHINE OPERATORS	(1,437)	(1,437)
(1,413)	3345	FABRICATING MACHINE OPERATORS. N.E.C.	(1,438)	(1,438)
(1,414)	3353	METAL AND PLASTIC PROCESSING MACHINE OPERATORS:	(1,439)	(1,439)
(1,415)	3361	MOLDING AND CASTING MACHINE OPERATORS	(1,440)	(1,440)
(1,416)	3369	METAL PLATING MACHINE OPERATORS	(1,441)	(1,441)
(1,417)	3377	HEAT TREATING EQUIPMENT OPERATORS	(1,442)	(1,442)
(1,418)	3385	MISCELLANEOUS METAL AND PLASTIC PROCESSING MACHINE OPERATORS		
(1,419)	3393	WOODWORKERS, MACHINE OPERATORS:	(1,443)	(1,443)
(1,420)	3401	WOOD LATHE, ROUTING, AND PLANING MACHINE OPERATORS	(1,444)	(1,444)
(1,421)	3409	SAWING MACHINE OPERATORS	(1,445)	(1,445)
(1,422)	3417	SHAPING AND JOINTING MACHINE OPERATORS	(1,446)	(1,446)
(1,423)	3425	NAILING AND TACKING MACHINE OPERATORS	(1,447)	(1,447)
(1,424)	3433	MISCELLANEOUS LEATHERWORKING MACHINE OPERATORS	(1,448)	(1,448)
(1,425)	3441	PRINTING MACHINE OPERATORS:	(1,449)	(1,449)
(1,426)	3449	PRINTING MACHINE OPERATORS PHOTOENGRAVERS AND LITHOGRAPHERS	(1,450)	(1,450)
(1,427)	3457	TYPESETTERS AND COMPOSITORS	* (1,451)	* (1,451)
(1,428)	3465	MISCELLANEOUS PRINTING MACHINE OPERATORS	* (1,452)	* (1,452)
(1,429)	3473	TEXTILE, APPAREL, AND FURNISHINGS MACHINE OPERATORS:	* (1,453)	* (1,453)
(1,430)	3481	WEAVING AND THISTLING MACHINE OPERATORS	* (1,454)	* (1,454)
(1,431)	3489	KNITTING, LOOPING, TAFFING, AND WEAVING MACHINE OPERATORS	(1,455)	(1,455)
(1,432)	3497	TEXTILE SEWING MACHINE OPERATORS		
(1,433)	3505	SHOE MACHINE OPERATORS		
		PRESSING MACHINE OPERATORS		
		LAUNDERING AND DRY CLEANING MACHINE OPERATORS		

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NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME
(1,434)	3513	MISCELLANEOUS TEXTILE MACHINE OPERATORS		
(1,435)	3521	MACHINE OPERATORS, ASSORTED MATERIALS: CEMENTING AND GLUING MACHINE OPERATORS		
(1,436)	3529	PACKAGING AND FILLING MACHINE OPERATORS		
(1,437)	3537	EXTRUDING AND FORMING MACHINE OPERATORS		
(1,438)	3545	MIXING AND BLENDING MACHINE OPERATORS		
(1,439)	3553	SEPARATING, FILTERING, AND CLARIFYING MACHINE OPERATORS		
(1,440)	3561	SQUEEZING AND COMPACTING MACHINE OPERATORS		
(1,441)	3569	PAINTING AND PAINT SPRAYING MACHINE OPERATORS		
(1,442)	3577	ROASTING AND BAKING MACHINE OPERATORS, FOOD		
(1,443)	3585	WASHING, CLEANING, AND PICKLING MACHINE OPERATORS		
(1,444)	3593	FOLDING MACHINE OPERATORS		
(1,445)	3601	FURNACE, KILN, AND OVEN OPERATORS, EXC. FOOD		
(1,446)	3609	CRUSHING AND GRINDING MACHINE OPERATORS		
(1,447)	3617	SLICING AND CUTTING MACHINE OPERATORS		
(1,448)	3625	MOTION PICTURE PROJECTORISTS PHOTOGRAPHIC PROCESS MACHINE OPERATORS		
(1,449)	3633	MISCELLANEOUS MACHINE OPERATORS: N.E.C.		
(1,450)	3641	MISCELLANEOUS MACHINE OPERATORS,		
(1,451)	3649	MACHINE OPERATORS, NOT SPECIFIED INDUSTRY:		
(1,452)	3657	NONDURABLE GOODS		
(1,453)	3665	DURABLE GOODS		
(1,454)	3673	NONMANUFACTURING INDUSTRIES		
(1,455)	3681	FABRICATORS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS; WELDERS AND CUTTERS		

* SEE USEFUL TABLES TO KNOW ABOUT THIS FILE.

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NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
(1,456)	3689	SOLDERS AND BRAZERS		(1,460)	3681		MATERIAL TRANSPORTATION OCCUPATIONS:
(1,457)	3697	ASSEMBLERS		(1,461)	3681		SHIP CAPTAINS AND MATES, EXCEPT FISHING BOATS
(1,458)	3705	HAND CUTTING AND TRIMMING OCCUPATIONS		(1,462)	3689		SAILORS AND DECKHANDS
(1,459)	3713	HAND HOLDING, DASTING, AND FORMING OCCUPATIONS		(1,463)	3697		MARINE ENGINEERS
(1,460)	3721	HAND PAINTING, COATING, AND DECORATING OCCUPATIONS		(1,463)	3705		BRIDGE, LOCK, AND LIGHTHOUSE TENDERS
(1,461)	3729	HAND ENGRAVING AND PRINTING OCCUPATIONS					MATERIAL MOVING EQUIPMENT OPERATORS:
(1,462)	3737	HAND GRINDING AND POLISHING OCCUPATIONS					SUPERVISORS, MATERIAL MOVING EQUIPMENT OPERATORS
(1,463)	3745	MISCELLANEOUS HAND WORKERS OCCUPATIONS					OPERATING ENGINEERS
(1,464)	3763	PRODUCTION INSPECTORS, TESTERS, SAMPLES, AND WEIGHERS!					LONGSHORE EQUIPMENT OPERATORS
(1,465)	3761	PRODUCTION INSPECTORS, CHECKERS, AND EXAMINERS					MOIST AND WINCH OPERATORS
(1,466)	3769	PRODUCTION SAMPLERS AND WEIGHERS					CRANE AND TOWER OPERATORS
(1,467)	3777	GRADERS AND SORTERS, EXC. AGRICULTURAL					EXCAVATING AND LOADING MACHINE OPERATORS
		TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS:					GRADER, DOZER, AND SCRAPER OPERATORS
							INDUSTRIAL TRUCK AND TRACTOR EQUIPMENT OPERATORS
							MISCELLANEOUS MATERIAL MOVING EQUIPMENT OPERATORS

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TRANSPORTATION AND MATERIAL MOVING
OCCUPATIONS:

NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
(1,468)	3785	MOTOR VEHICLE OPERATORS:		(1,493)	3985		SUPERVISORS, HANDLERS, EQUIPMENT CLEANERS, AND LABORERS, N.E.C.
(1,469)	3793	SUPERVISORS, MOTOR VEHICLE OPERATORS		(1,494)	3993		HELPERS, MECHANICS AND REPAIRERS
(1,470)	3801	TRUCK DRIVERS, HEAVY TRUCK DRIVERS, LIGHT DRIVER-SALES WORKERS		(1,495)	4001		HELPERS, CONSTRUCTION AND EXTRACTIVE OCCUPATIONS:
(1,471)	3809	BUS DRIVERS		(1,496)	4009		HELPERS, CONSTRUCTION TRADES
(1,472)	3817	TAXICAB DRIVERS AND CHAUFFEURS		(1,497)	4017		HELPERS, SURVEYOR
(1,473)	3825	PARKING LOT ATTENDANTS		(1,498)	4025		HELPERS, EXTRACTIVE OCCUPATIONS
(1,474)	3833	MOTOR TRANSPORTATION OCCUPATIONS, N.E.C.		(1,499)	4033		CONSTRUCTION LABORERS
(1,475)	3841						PRODUCTION HELPERS
		TRANSPORTATION OCCUPATIONS, EXCEPT MOTOR VEHICLES:					GARAGE COLLECTORS
							STEVEDORES
							STOCK HANDLERS AND BAGGERS
							MACHINE FEEDERS AND OFFBEARERS
							FREIGHT, STOCK, AND MATERIAL HANDLERS, N.E.C.
							GARAGE AND SERVICE STATION RELATED OCCUPATIONS
							VEHICLE WASHERS AND EQUIPMENT CLIMBERS
							HAND PACKERS AND PACKAGERS

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*{1,508}	4105		LABORERS, EXCEPT CONSTRUCTION MANUFACTURING:	{2,221}				BUYERS, WHOLESALE AND RETAIL TRADE EXCEPT FARM PRODUCTS PURCHASING AGENTS AND BUYERS, N.E.C.	4329			
*{1,509}	4113		NONDURABLE GOODS DURABLE GOODS	{2,123}				BUSINESS AND PROMOTION AGENTS CONSTRUCTION INSPECTORS	4337			
*{1,510}	4121		TRANSPORTATION, COMMUNICATIONS, AND OTHER PUBLIC UTILITIES	{2,241}				INSPECTORS AND COMPLIANCE OFFICERS, EXCEPT CONSTRUCTION	4345			
*{1,511}	4129		WHOLESALE AND RETAIL TRADE ALL OTHER INDUSTRIES	{2,251}				MANAGEMENT RELATED OCCUPATIONS, N.E.C.	4353			
*{1,512}	4137		UNEMPLOYED, NO CIVILIAN WORK EXPERI- ENCE SINCE 1975	{2,261}				PROFESSIONAL SPECIALTY OCCUPATIONS:	4361			
*{1,513}	4145			{2,271}				ENGINEERS, ARCHITECTS, AND SURVEYORS: ENGINEERS:	4369			
{1,514}	4153							ARCHITECTS: AEROSPACE	4377			
								METALLURGICAL AND MATERIALS MINING	4395			
								PETROLEUM	4401			
								CHEMICAL	4409			
								NUCLEAR	4417			
								CIVIL	4425			
								AGRICULTURAL	4433			
								ELECTRICAL AND ELECTRONIC	4441			
								INDUSTRIAL	4449			
								MECHANICAL	4457			
								NAUTICAL AND NAVAL ARCHITECTS	4465			
								ENGINEERS, N.E.C.	4473			
								SURVEYORS AND MAPPING SCIENTISTS	4481			
								MATHEMATICAL AND COMPUTER SCIENTISTS:	4489			
								COMPUTER SYSTEMS ANALYSTS AND SCIENTISTS	4497			
								OPERATIONS AND SYSTEMS RESEARCHERS AND ANALYSTS	4505			
								ACTUARIES				
								STATISTICIANS	4513			
								NATURAL SCIENTISTS:	4521			
								PHYSICISTS AND ASTROBIOLOGISTS	4529			
								ATMOSPHERIC AND SPACE SCIENTISTS	4537			
								CHEMISTS, EXCEPT BIOCHEMISTS	4545			
								GEOLOGISTS AND GEODESISTS	4553			
								PHYSICAL SCIENTISTS, N.E.C.	4561			
								AGRICULTURAL AND FOOD SCIENTISTS	4569			
								BIOLOGICAL AND LIFE SCIENTISTS	4577			
								FORESTRY AND CONSERVATION SCIENTISTS	4585			
								HEALTH SCIENCES	4593			
									4601			

*SEE USEFUL THINGS TO KNOW ABOUT THIS FILE

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NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
HEALTH DIAGNOSING OCCUPATIONS:							
PHYSICIANS	{2,57}	4619		(2,96)		4921	SOCIAL WORK TEACHERS
DENTISTS	{2,58}	4617		{2,97}		4929	THEOLOGY TEACHERS
VETERINARIANS	{2,59}	4625		{2,98}		4937	TRADE AND INDUSTRIAL TEACHERS
OPTOMETRISTS	{2,60}	4633		{2,99}		4945	HOME ECONOMICS TEACHERS
PODIATRISTS	{2,61}	4641		{2,100}		4953	TEACHERS, POSTSECONDARY, N.E.C.
HEALTH DIAGNOSING PRACTITIONERS, N.E.C.	{2,62}	4649		{2,101}		4961	POSTSECONDARY TEACHERS, SUBJECT NOT SPECIFIED
HEALTH ASSESSMENT AND TREATING OCCUPATIONS:							
REGISTERED NURSES	{2,63}	4657		{2,102}		4969	TEACHERS, PREKINDERGARTEN AND KINDER- GARTEN
PHARMACISTS	{2,64}	4665		{2,103}		4977	TEACHERS, ELEMENTARY SCHOOL
DIETITIANS	{2,65}	4673		{2,104}		4985	TEACHERS, SECONDARY SCHOOL
THERAPISTS:				{2,105}		4993	TEACHERS, SPECIAL EDUCATION
INHALATION THERAPISTS				{2,106}		5001	TEACHERS, N.E.C.
OCCUPATIONAL THERAPISTS				{2,107}		5009	COUNSELORS, EDUCATIONAL AND VOCATIONAL LIBRARIANS, ARCHIVISTS, AND CURATORS
PHYSICAL THERAPISTS				{2,108}		5017	LIBRARIANS ARCHIVISTS AND CURATORS
SPEECH THERAPISTS				{2,109}		5025	SOCIAL SCIENTISTS AND URBAN PLANNERS
THERAPISTS, N.E.C.							ECONOMISTS
PHYSICIANS ASSISTANTS							PSYCHOLOGISTS
							SOCIOLOGISTS
							SOCIAL SCIENTISTS, N.E.C.
							URBAN PLANNERS
TEACHERS, POSTSECONDARY:							
EARTH, ENVIRONMENTAL, AND MARINE SCIENCE TEACHERS	{2,72}	4729		{2,110}		5033	SOCIAL WORKERS
BIOLOGICAL SCIENCE TEACHERS	{2,73}	4737		{2,111}		5042	RECREATIONAL WORKERS
CHEMISTRY TEACHERS	{2,74}	4745		{2,112}		5049	CLERGY
PHYSICS TEACHERS	{2,75}	4753		{2,113}		5057	RELIGIOUS WORKERS, N.E.C.
NATURAL SCIENCE TEACHERS, N.E.C.	{2,76}	4761		{2,114}		5065	
PSYCHOLOGY TEACHERS	{2,77}	4769					SOCIAL, RECREATION, AND RELIGIOUS WORKERS:
ECONOMICS TEACHERS	{2,78}	4777					SOCIAL WORKERS
HISTORY TEACHERS	{2,79}	4785					RECREATIONAL WORKERS
POLITICAL SCIENCE TEACHERS	{2,80}	4793					CLERGY
SOCIOLOGY TEACHERS	{2,81}	4801					RELIGIOUS WORKERS, N.E.C.
SOCIAL SCIENCE TEACHERS, N.E.C.	{2,82}	4809					
ENGINEERING TEACHERS	{2,83}	4817					LAWYERS AND JUDGES:
MATHEMATICAL SCIENCE TEACHERS	{2,84}	4825					JUDGES
COMPUTER SCIENCE TEACHERS	{2,85}	4833					
MEDICAL SCIENCE TEACHERS	{2,86}	4841					
HEALTH SPECIALTIES TEACHERS	{2,87}	4849					
BUSINESS, COMMERCE, AND MARKETING TEACHERS	{2,88}	4857					
							WRITERS, ARTISTS, ENTERTAINERS, AND ATHLETES:
AGRICULTURE AND FORESTRY TEACHERS	{2,89}	4865					AUTHORS
ART, DRAMA, AND MUSIC TEACHERS	{2,90}	4873					TECHNICAL WRITERS
PHYSICAL EDUCATION TEACHERS	{2,91}	4881					DESIGNERS
EDUCATION TEACHERS	{2,92}	4889					MUSICIANS AND COMPOSERS
ENGLISH LANGUAGE TEACHERS	{2,93}	4897					ACTORS AND DIRECTORS
FOREIGN LANGUAGE TEACHERS	{2,94}	4905					PAINTERS, SCULPTORS, CRAFT-ARTISTS, AND ARTIST FRIMAKERS
LAN TEACHERS	{2,95}	4913					

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NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
TEACHERS, EXCEPT POSTSECONDARY:							
TEACHERS, PREKINDERGARTEN AND KYNDER- GARTEN	{2,96}	4921		TEACHERS, ELEMENTARY SCHOOL	{2,97}	4929	
TEACHERS, SECONDARY SCHOOL	{2,98}	4937		TEACHERS, SPECIAL EDUCATION	{2,99}	4945	
TEACHERS, N.E.C.	{2,100}	4953		POSTSECONDARY TEACHERS, SUBJECT NOT SPECIFIED	{2,101}	4961	

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RECORD 01

NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
TEACHERS, EXCEPT POSTSECONDARY:							
TEACHERS, PREKINDERGARTEN AND KYNDER- GARTEN	{2,96}	4921		TEACHERS, ELEMENTARY SCHOOL	{2,97}	4929	
TEACHERS, SECONDARY SCHOOL	{2,98}	4937		TEACHERS, SPECIAL EDUCATION	{2,99}	4945	
TEACHERS, N.E.C.	{2,100}	4953		POSTSECONDARY TEACHERS, SUBJECT NOT SPECIFIED	{2,101}	4961	

SEQ	DATA DICTIONARY	03/24/83	RECORD 01	NAME	SIZE/ SCALE	DATA TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	DATA TYPE	NUMBER OF CELLS	RECORD 01	DATA DICTIONARY	03/24/83	
(2,127)	5169	PHOTOGRAPHERS													
(2,128)	5177	DANCERS													
(2,129)	5185	ARTISTS, PERFORMERS, AND RELATED WORKERS, N.E.C.													
(2,130)	5193	EDITORS AND REPORTERS													
(2,131)	5201	PUBLIC RELATIONS SPECIALISTS													
(2,132)	5209	ANNOUNCERS													
(2,133)	5217	ATHLETES													
		TECHNICIANS AND RELATED SUPPORT OCCUPATIONS:													
(2,134)	5225	HEALTH TECHNOLOGISTS AND TECHNICIANS:													
		CLINICAL LABORATORY TECHNOLOGISTS AND TECHNICIANS													
(2,135)	5233	DENTAL HYGIENISTS													
(2,136)	5241	HEALTH RECORD TECHNICIANS AND TECHNICIANS													
(2,137)	5249	RADIOLOGIC TECHNICIANS													
(2,138)	5257	LICENSED PRACTICAL NURSES													
(2,139)	5265	HEALTH TECHNOLOGISTS AND TECHNICIANS, N.E.C.													
		TECHNOLOGISTS AND TECHNICIANS, EXCEPT HEALTH:													
		ENGINEERING AND RELATED TECHNOLOGISTS AND TECHNICIANS:													
(2,140)	5273	ELECTRICAL AND ELECTRONIC TECHNICIANS													
(2,141)	5281	INDUSTRIAL ENGINEERING TECHNICIANS													
(2,142)	5289	Mechanical Engineering Technicians													
(2,143)	5297	ENGINEERING TECHNICIANS, N.E.C.													
(2,144)	5305	DRAFTING OCCUPATIONS													
(2,145)	5313	SURVEYING AND MAPPING TECHNICIANS													
(2,146)	5321	SCIENCE TECHNICIANS:													
(2,147)	5329	BIOLOGICAL TECHNICIANS													
(2,148)	5337	CHEMICAL TECHNICIANS, N.E.C.													
		TECHNICIANS; EXCEPT HEALTH, ENGINEERING AND SCIENCE:													
(2,149)	5345	AIRPLANE PILOTS AND NAVIGATORS													
(2,150)	5353	AIR TRAFFIC CONTROLLERS													
(2,151)	5361	EMERGENCY EQUIPMENT OPERATORS													
(2,152)	5369	COMPUTER PROGRAMMERS													
(2,153)	5377	TOOL PROGRAMMERS, NUMERICAL CONTROL													
(2,154)	5385	LEGAL ASSISTANTS													
(2,155)	5393	TECHNICIANS, N.E.C.													
		SALES OCCUPATIONS:													
		SUPERVISORS AND PROPRIETORS, SALARIED OCCUPATIONS, SELF-EMPLOYED													
		SUPERVISORS AND PROPRIETORS, SALES OCCUPATIONS													
		SALES REPRESENTATIVES, FINANCE AND BUSINESS SERVICES:													
		INSURANCE SALES OCCUPATIONS													
		REAL ESTATE SALES OCCUPATIONS													
		SECURITIES AND FINANCIAL SERVICES													
		SALES OCCUPATIONS													
		ADVERTISING AND RELATED SALES OCCUPATIONS													
		OCCUPATIONS													
		SALES OCCUPATIONS, OTHER BUSINESS SERVICES													
		SALES REPRESENTATIVES, COMMODITIES EXCEPT RETAIL:													
		SALES ENGINEERS													
		SALES REPRESENTATIVES, MINING, MANUFACTURING, AND WHOLESALE													
		SALES WORKERS, RETAIL AND PERSONAL SERVICES:													
		SALES WORKERS, MOTOR VEHICLES AND BOATS													
		SALES WORKERS, APPAREL													
		SALES WORKERS, SHOES													
		SALES WORKERS, FURNITURE AND HOME FURNISHINGS													
		SALES WORKERS, RADIO, TV, HI-FI, AND APPLIANCES													
		SALES WORKERS, HARDWARE AND BUILDING SUPPLIES													
		SALES WORKERS, PARTS													
		SALES WORKERS, OTHER COMMODITIES													
		SALES COUNTER CLERKS													
		CASHIERS													
		STREET AND DOOR-TO-DOOR SALESMEN													
		SALES WORKERS													
		NEWS VENDORS													
		SALES RELATED OCCUPATIONS:													
		DIMINISTRATORS, PROMOTERS AND MODELS, SALES													

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NAME	SIZE/ SCALE	BEGIN TYPE	DATA CELLS	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA CELLS	NUMBER OF CELLS
{2,17B} {2,179}	5577 \$585	AUCTIONEERS SALES SUPPORT OCCUPATIONS, N.E.C., ADMINISTRATIVE SUPPORT OCCUPATIONS, INCLUDING CLERICAL;			{2,203} (2,204) (2,205) (2,206)	5777 5785 5793 5801		PAYOUT AND TIMEKEEPING CLERKS BILLING CLERKS COST AND RATE CLERKS BILLING, POSITING, AND CALCULATING MACHINE OPERATORS	
(2,180) (2,181)	5593 5601	SUPERVISORS, ADMINISTRATIVE SUPPORT OCCUPATIONS: SUPERVISORS, GENERAL OFFICE SUPERVISORS, COMPUTER EQUIPMENT OPERATORS			{2,207} (2,208)	5809 5817		DUPLEXING, MAIL AND OTHER OFFICE MACHINE OPERATORS; DUPLICATING MACHINE OPERATORS; MAIL PREPARING AND PAPER HANDLING MACHINE OPERATORS OFFICE MACHINE OPERATORS, N.E.C.	
(2,182)	5609	SUPERVISORS, FINANCIAL RECORDS PROCESSING			{2,209}	5825		COMMUNICATIONS EQUIPMENT OPERATORS; TELEPHONE OPERATORS TELEGRAPHERS COMMUNICATIONS EQUIPMENT OPERATORS, N.E.C.	
(2,183) (2,184)	5617 5625	CHIEF COMMUNICATIONS OPERATORS SUPERVISORS, DISTRIBUTION, SHENDELING, AND ADJUSTING CLERKS			{2,210} (2,211) (2,212)	5833 5841 5849			
(2,185) (2,186)	5633 5641	COMPUTER EQUIPMENT OPERATORS: COMPUTER OPERATORS PERIPHERAL EQUIPMENT OPERATORS						MAIL AND MESSAGE DISTRIBUTING OCCUPATIONS:	
(2,187) (2,188)	5649 5657	SECRETARIES, STENOGRAPHERS AND TYPISTS: SECRETARIES STENOGRAPHERS			{2,213} (2,214) (2,215) (2,216)	5857 5865 5873 5881		POSTAL CLERKS, EXC. MAIL CARRIERS MAIL CARRIERS, POSTAL SERVICE MAIL CLERKS, EXC. POSTAL SERVICE MESSENGERS	
(2,189)	5665	TYPISTS							
(2,190) (2,191)	5673 5681	INFORMATION CLERKS: INTERVIEWERS HOTEL CLERKS			{2,217}	5889		MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS; DISPATCHERS	
(2,192)	5689	TRANSPORTATION TICKET AND REGISTRATION AGENTS			{2,218}	5897		PRODUCTION COORDINATORS	
(2,193)	5697	RECEPTIONISTS			{2,219}	5905		TRAFFIC, SHIPPING, AND RECEIVING CLERKS	
(2,194)	5705	INFORMATION CLERKS, N.E.C.			{2,220}	5913		STICK AND INVENTORY CLERKS	
(2,195)	5713	RECORDS PROCESSING OCCUPATIONS, EXCEPT FINANCIAL: CLASSIFIED-AD CLERKS			{2,221}	5921		METER READERS	
(2,196)	5721	CORRESPONDENCE CLERKS			{2,222}	5929		WEIGHERS, MEASURERS, AND CHECKERS	
(2,197)	5729	ORDER CLERKS			{2,223}	5937		SAMPLERS	
(2,198)	5737	PERSONNEL CLERKS, EXCEPT PAYROLL AND TIMEKEEPING			{2,224}	5945		EXPEDITERS	
(2,199)	5745	LITERACY CLERKS			{2,225}	5953		MATERIAL RECORDING, SCHEDULING, AND DISTRIBUTING CLERKS, N.E.C.	
(2,200)	5753	FILE CLERKS						ADJUSTERS AND INVESTIGATORS:	
(2,201)	5761	RECORDS CLERKS						INSURANCE ADJUSTERS, EXAMINERS, AND INVESTIGATORS	
(2,202)	5769	FINANCIAL RECORDS PROCESSING OPERATIONS: BOOKKEEPERS, ACCOUNTING AND AUDITING CLERKS			{2,227}	5964		INVESTIGATORS AND ADJUSTERS, EXCEPT INSURANCE	
					{2,228}	5969		ELIGIBILITY CLERKS, SOCIAL WELFARE	

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NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
(2,229)	6965		BILL AND ACCOUNT COLLECTORS				
			MISCELLANEOUS ADMINISTRATIVE SUPPORT OCCUPATIONS:				
			GENERAL OFFICE CLERKS				
			BANK TELLERS				
			PROOFREADERS				
			DATA-ENTRY KEYERS				
			STATISTICAL CLERKS				
			TEACHERS' AIDS				
			ADMINISTRATIVE SUPPORT OCCUPATIONS, H.E.C.				
			ADVISORS				
			PRIVATE HOUSEHOLD OCCUPATIONS:				
			LAWBERVERS AND TRADERS				
			COOKS, PRIVATE HOUSEHOLD				
			HOUSEKEEPERS AND BUTLERS				
			CHILD CARE WORKERS, PRIVATE				
			HOUSEHOLD				
			PRIVATE HOUSEHOLD CLEANERS				
			AND SERVANTS				
			PROTECTIVE SERVICE OCCUPATIONS:				
			SUPERVISORS, PROTECTIVE SERVICE				
			OCCUPATIONS:				
			SUPERVISORS, FIREFIGHTING AND FIRE				
			PREVENTION OCCUPATIONS				
			SUPERVISORS, POLICE AND DETECTIVES				
			SUPERVISORS, GUARDS				
			FIREFIGHTING AND FIRE PREVENTION				
			OCCUPATIONS:				
			FIRE INSPECTION AND FIRE PREVENTION				
			OCCUPATIONS:				
			FIREFIGHTING OCCUPATIONS				
			POLICE AND DETECTIVES:				
			POLICE AND DETECTIVES, PUBLIC SERVICE				
			SHERIFFS, BAILIFFS, AND OTHER				
			LAW ENFORCEMENT OFFICERS				
			CORRECTIONAL INSTITUTION OFFICERS				
			GUARDS:				
			CROSSING GUARDS				
			GUARDS AND POLICE, EXC.				
			PUBLIC SERVICE				
			PROTECTIVE SERVICE OCCUPATIONS, N.E.C.				
			(2,250)	6153			
			(2,251)	6161			
			(2,252)	6169			

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NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	DATA NUMBER OF CELLS
			SERVICE OCCUPATIONS, EXCEPT PROTECTIVE AND PRIVATE HOUSEHOLD:				
			FOOD PREPARATION AND SERVICE OCCUPATIONS:				
			SUPERVISORS, FOOD PREPARATION AND SERVICE OCCUPATIONS				
			BARTENDERS				
			KATERS AND MATTESES				
			CHURS, EXCEPT SHORT ORDER				
			SHORT-ORDER COOKS				
			FOOD COUNTER, FOUNTAIN AND RELATED OCCUPATIONS				
			KITCHEN WORKERS, FOOD PREPARATION				
			WAITERS, WAITRESSES, ASSISTANTS				
			MISCELLANEOUS FOOD PREPARATION OCCUPATIONS				
			HEALTH SERVICE OCCUPATIONS:				
			DENTAL ASSISTANTS				
			HEALTH AIDES, EXCEPT NURSING				
			NURSING AIDES, ORDERLIES, AND ATTENDANTS				
			CLEANING AND BUILDING SERVICE OCCUPATIONS, EXCEPT HOUSEHOLD:				
			SUPERVISORS, CLEANING AND BUILDING				
			SERVICE WORKERS				
			MAIDS AND HOUSEMEN				
			JANITORS AND CLEAVERS				
			ELEVATOR OPERATORS				
			PEST CONTROL OCCUPATIONS				
			PERSONAL SERVICE OCCUPATIONS:				
			SUPERVISORS, PERSONAL SERVICE				
			BARBERS				
			HAIRDRESSERS AND COSMETOLOGISTS				
			ATTENDANTS, AMUSEMENT AND RECREATION FACILITIES				
			GAMBLERS				
			WHEELERS				
			PUBLIC TRANSPORTATION ATTENDANTS				
			BAGGAGE PORTERS AND BELLMEN				
			WELFARE SERVICE AIDES				
			CHILD CARE WORKERS, EXCEPT PRIVATE HOUSEHOLD				

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				CONSTRUCTION TRADES:							
				SUPERVISORS, CONSTRUCTION OCCUPATIONS:							
				SUPERVISORS, BRICKMASSONS, STONEMasons, AND TILE SETTERS	(2,357)				7099		
				SUPERVISORS, CARPENTERS AND RELATED WORKERS	(2,358)				7017		
				SUPERVISORS, ELECTRICIANS AND POWER TRANSMISSION INSTALLERS	(2,359)				7025		
				SUPERVISORS, PAINTERS, PAPERHANGERS AND PLASTERERS	(2,360)				7033		
				SUPERVISORS, PLUMBERS, PIPEFITTERS, AND STEAMFITTERS	(2,361)				7041		
				SUPERVISORS, N.E.C.	(2,362)						
				CONSTRUCTION TRADES, EXCEPT SUPERVISORS:					7049		
				BRICKMASSONS AND STONEMasons, EXCEPT APPRENTICES							
				BRICKMASSON AND STONEMASON APPRENTICE	(2,363)						
				TILE SETTERS, HARD AND SOFT	(2,364)						
				CARPET INSTALLERS	(2,365)						
				CARPENTERS, EXCEPT APPRENTICES	(2,366)						
				CARPENTER APPRENTICES	(2,367)						
				DRYWALL INSTALLERS	(2,368)						
				ELECTRICIANS, EXCEPT APPRENTICES	(2,369)				7097		
				ELECTRICIAN APPRENTICES	(2,370)				7105		
				ELECTRICAL POWER INSTALLERS AND REPAIRERS	(2,371)				7113		
				PAINTERS, CONSTRUCTION AND MAINTENANCE	(2,372)				7121		
				PAPERHANGERS	(2,373)				7129		
				PLASTERERS	(2,374)						
				PLUMBERS, EXCEPT APPRENTICES	(2,375)						
				PIPEFITTER, AND STEAMFITTER APPRENTICES	(2,376)						
				PAINTERS, CONSTRUCTION AND MAINTENANCE	(2,377)						
				PAPERHANGERS	(2,378)						
				PLASTERERS	(2,379)						
				PLUMBERS, EXCEPT APPRENTICES	(2,380)						
				PIPEFITTER, AND STEAMFITTER APPRENTICES	(2,381)						
				CONCRETE AND TERRAZZO FINISHERS	(2,382)						
				GLAZIERS	(2,383)						
				INSULATION WORKERS	(2,384)						
				PAVING, SURFACING, AND TAMMING EQUIPMENT OPERATORS	(2,385)						
				ROOFERS	(2,386)						
				STRUCTURAL DUCT INSTALLERS	(2,387)						
				STRUCTURAL METAL WORKERS	(2,388)						
				DRILLERS, EARTH	(2,389)						

EEO DATA DICTIONARY 03/24/83

RECORD #1

EEO DATA DICTIONARY 03/24/83

RECORD #1

CONSTRUCTION TRADES, N.E.C.

EXTRACTIVE OCCUPATIONS:
SUPERVISORS, EXTRACTIVE OCCUPATIONS
DRILLERS, OIL WELL
EXPLOSIVE WORKERS
MINING MACHINE OPERATORS
MINING OCCUPATIONS, N.E.C.

PRECISION PRODUCTION OCCUPATIONS:
SUPERVISORS, PRODUCTION OCCUPATIONS
PRECISION METAL WORKING OCCUPATIONS:
TOOL AND DIE MAKERS, EXCEPT APPRENTICES
TOOL AND DIE MAKER APPRENTICES
MACHINISTS, EXCEPT APPRENTICES
MACHINIST APPRENTICES

DRILLERS
PRECISION GRINDERS, FILERS, AND
TOOL SHARPENERS
PATTERNMAKERS AND MODEL MAKERS,
METAL
LAY-OUT WORKERS
PRECISION STRIKERS AND METALS WORKERS
JEWELERS
ENGRAVERS, METAL
SHEET METAL WORKERS, EXCEPT
APPRENTICES
SHEET METAL WORKER APPRENTICES
NOMINALLY PRECISION METAL
WORKERS

PRECISION WOODWORKING OCCUPATIONS:
PATTERNMAKERS AND MODEL MAKERS,
WOOD
CABINET MAKERS AND BENCH
CARPENTERS
FURNITURE AND WOOD FINISHERS
NOMINALLY PRECISION WOOD-
WORKERS

PRECISION TEXTILE, APPAREL, AND
FURNISHINGS MACHINE WORKERS:
DRESSMAKERS
TAILORS
UPHOLSTERERS

RECORD 01	DATA DICTIONARY	03/24/83	RECORD 01	DATA DICTIONARY	03/24/83		
NAME	SIZES/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZES/ SCALE	BEGIN TYPE	NUMBER OF CELLS
(2,384)	7225		SHOE REPAIRERS	(2,405)	7393		HILLING AND PLANING MACHINE OPERATOR
(2,385)	7235		APPAREL AND FABRIC PATTERNMAKERS	(2,406)	7401		PUNCHING AND STAMPING PRESS MACHINE
(2,386)	7241		MISCELLANEOUS PRECISION APPAREL AND FABRIC WORKERS	(2,407)	7409		ROLLING MACHINE OPERATORS
			PRECISION WORKERS, ASSORTED MATERIALS:	(2,408)	7817		DRILLING, ABRADING, BUFFING, AND
			HARD MOULDERS AND SHAPERS, EXCEPT	(2,409)	7425		POLISHING MACHINE OPERATORS
			JEWELERS	(2,910)	7633		FORGING MACHINE OPERATORS
			PATTERNMAKERS, LAY-OUT WORKERS,	(2,911)	7441		NUMERICAL CONTROL MACHINE OPERATORS
			AND CUTTERS	(2,912)	7449		MISCELLANEOUS METAL, PLASTIC, STONE, AND GLASS WORKING MACHINE OPERATORS
			OPTICAL GOODS WORKERS	(2,913)	7457		FABRICATING MACHINE OPERATORS, N.E.C.
			DENTAL LABORATORY AND MEDICAL				METAL AND PLASTIC PROCESSING MACHINE
			APPLIANCE TECHNICIANS				OPERATORS:
			BOOKBINDERS				MOLDING AND CASTING MACHINE OPERATORS
			ELECTRICAL AND ELECTRONIC				METAL PLATING MACHINE OPERATORS
			EQUIPMENT ASSEMBLERS	(2,419)	7465		HEAT-TREATING EQUIPMENT OPERATORS
			MISCELLANEOUS PRECISION WORKERS,	(2,415)	7473		MISCELLANEOUS METAL AND PLASTIC
			N.E.C.	(2,416)	7481		PROCESSING MACHINE OPERATORS
				(2,417)	7489		
			PRECISION FOOD PRODUCTION OCCUPATIONS:				WOODWORKING MACHINE OPERATORS:
			BUTCHERS AND MEAT CUTTERS				WOOD LATHE, ROUTING, AND PLANING
			BAKERS	(2,418)	7497		MACHINE OPERATORS:
			FOOD BAKERS/MAKERS				SAWING MACHINE OPERATORS
				(2,419)	7505		SHAPING AND JOINING MACHINE OPERATORS
			PRECISION INSPECTORS, TESTERS, AND RELATED WORKERS:	(2,420)	7513		NAILING AND TACKING MACHINE OPERATORS
			INSPECTORS, TESTERS, AND GRADERS	(2,421)	7521		MISCELLANEOUS WOODWORKING
			ADJUSTERS AND CALIBRATORS	(2,422)	7529		MACHINE OPERATORS
			PLANT AND SYSTEM OPERATORS:				PRINTING MACHINE OPERATORS:
			WATER AND SEWAGE TREATMENT				PRINTING MACHINE OPERATORS:
			PLANT OPERATORS	(2,423)	7537		PHOTOENGRAVERS AND LITHOGRAPHERS
			POWER PLANT OPERATORS	(2,424)	7545		TYPESETTERS AND COMPOSITIONERS
			STATIONARY ENGINEERS	(2,425)	7553		MISCELLANEOUS PRINTING MACHINE
			MISCELLANEOUS PLANT AND	(2,426)	7561		OPERATORS
			SYSTEM OPERATORS				
							TEXTILE, APPAREL, AND FURNISHINGS
			MACHINE OPERATORS, ASSEMBLERS, AND				MACHINE OPERATORS:
			INSPECTORS:				KNOTTING, LOOPING, TAFFING, AND
			MACHINE OPERATORS AND VENDORS,	(2,428)	7577		WEAVING MACHINE OPERATORS
			EXCEPT PRECISION:				TEXTILE CUTTING MACHINE OPERATORS
							TEXTILE SEWING MACHINE OPERATORS
			METALWORKING AND PLASTIC MOLDING	(2,429)	7585		SHOE MACHINE OPERATORS
			MACHINE OPERATORS:	(2,930)	7593		PRESSING MACHINE OPERATORS
			LATHE AND TURNING MACHINE SET-UP	(2,431)	7601		
			OPERATORS	(2,432)	7609		
			LATHE AND TURNING MACHINE OPERATORS				

EEO DATA DICTIONARY 03/24/83

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RECORD 01

NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS	NAME	SIZE/ SCALE	BEGIN TYPE	NUMBER OF CELLS
(2,431)	7617	LAUNDERING AND DRY CLEANING MACHINE OPERATORS	[2,455]	WELDERS AND CUTTERS	7793		
(2,434)	7625	MISCELLANEOUS TEXTILE MACHINE OPERATORS	[2,456]	SOLDIERS AND BRAZERS	7801		
(2,435)	7633	MACHINERY OPERATORS, ASSORTED MATERIALS: CEMENTING AND GLUING MACHINE OPERATORS	[2,457]	ASSEMBLERS	7809		
(2,436)	7641	PACKAGING AND FILLING MACHINE OPERATORS	[2,458]	HAND CUTTING AND THINNING OCCUPATIONS	7817		
(2,437)	7649	EXTRUDING AND FORMING MACHINE OPERATORS	[2,459]	HAND MOULDING, CASTING, AND FORGING OCCUPATIONS	7825		
(2,438)	7657	MIXING AND BLENDING MACHINE OPERATORS	[2,460]	HAND PAINTING, COATING, AND DECORATING OCCUPATIONS	7833		
(2,439)	7665	SEPARATING, FILTERING, AND CLARIFYING MACHINE OPERATORS	[2,461]	HAND ENGRAVING AND PRINTING OCCUPATIONS	7841		
(2,440)	7673	COMPRESSING AND COMPACTING MACHINE OPERATORS	[2,462]	HARD GRINDING AND POLISHING OCCUPATIONS	7849		
(2,441)	7681	PAINTING AND PAINT SPRAYING MACHINE OPERATORS	[2,463]	MISCELLANEOUS HAND WORKERS OCCUPATIONS	7857		
(2,442)	7689	ROASTING AND BAKING MACHINE OPERATORS, FOOD	[2,464]	PRODUCTION INSPECTORS, TESTERS, SAMPLERS, AND WEIGHERS:			
(2,443)	7697	WASHING, CLEANING, AND PICKLING MACHINE OPERATORS	[2,465]	PRODUCTION INSPECTORS, CHECKERS, AND EXAMINERS	7865		
(2,444)	7705	FOLDING MACHINE OPERATORS	[2,466]	PRODUCTION TESTERS	7873		
(2,445)	7713	FURNACE, KILN, AND OVEN OPERATORS, EXC. FOOD	[2,467]	PRODUCTION SAMPLERS AND WEIGHERS	7881		
(2,446)	7721	CRUSHING AND GRINDING MACHINE OPERATORS	[2,468]	GRADERS AND SORTERS, EXC. AGRICULTURAL	7889		
(2,447)	7729	SLICING AND CUTTING MACHINE OPERATORS	[2,469]	TRANSPORTATION AND MATERIAL MOVING OCCUPATIONS:			
(2,448)	7737	MOTION PICTURE PROJECTIONISTS	[2,470]	MOTOR VEHICLE OPERATORS:			
(2,449)	7745	PHOTOGRAPHIC PROCESS MACHINE OPERATORS	[2,471]	SUPERVISORS, MOTOR VEHICLE OPERATORS			
		MISCELLANEOUS AND NOT SPECIFIED	[2,472]	TRUCK DRIVERS, HEAVY TRUCK DRIVERS, LIGHT TRUCK DRIVERS, LIGHT DRIVER-SALES WORKERS			
		MACHINE OPERATORS:	[2,473]	SUS DRIVERS			
* (2,450)	7753	MISCELLANEOUS MACHINE OPERATORS, N.E.C.	[2,474]	TAXICAB DRIVERS AND CHAUFFEURS			
* (2,451)	7761	MACHINE OPERATORS, NOT SPECIFIED	[2,475]	PARKING LOT ATTENDANTS			
		INDUSTRY:		MOTOR TRANSPORTATION OCCUPATIONS, EXCEPT MOTOR VEHICLES:			
* (2,452)	7769	MANUFACTURING GOODS	[2,476]	RAILROAD CONDUCTORS AND YARDMASTERS	7961		
* (2,453)	7777	DURABLE GOODS	[2,477]	LOCOMOTIVE OPERATORS OCCUPATIONS	7969		
* (2,454)	7785	NONMANUFACTURING INDUSTRIES	[2,478]	RAILROAD BRAKE, SIGNAL, AND SWITCH OPERATORS	7977		
		FABRICATIONS, ASSEMBLERS, AND HAND WORKING OCCUPATIONS:		RAIL VEHICLE OPERATORS, N.E.C.	7985		

* SEE USEFUL THINGS TO KNOW ABOUT THIS FILE

EEQ DATA DICTIONARY 03/24/63

RECORD 01

SIZE/
SCALE BEGIN
NAME TYPE NUMBER OF
CELLS

WATER TRANSPORTATION OCCUPATIONS:
SHIP CAPTAINS AND MATES, EXCEPT
FISHING BOATS
SAILORS AND DECKHANDS
MARINE ENGINERS
DRIVER, LOCOMOTIVE
TENDERS

(2,480) 7993 8001 8009 8017
(2,481) 8001 8009 8017
(2,482) 8001 8009 8017
(2,483) 8001 8009 8017

(2,484) 8025
(2,485) 8033 8041 8049 8057
(2,486) 8033 8041 8049 8057
(2,487) 8033 8041 8049 8057
(2,488) 8033 8041 8049 8057
(2,489) 8033 8041 8049 8057

(2,490) 8073
(2,491) 8081
(2,492) 8089

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MATERIAL MOVING EQUIPMENT OPERATORS:
SUPERVISORS, MATERIAL MOVING
EQUIPMENT OPERATORS
OPERATING ENGINEERS
LONGSHORE EQUIPMENT OPERATORS
HOIST AND WINCH OPERATORS
CRANE AND TOWER OPERATORS
EXCAVATORS AND LOADING MACHINE
OPERATORS
GRADER, DOZER, AND SCRAPER
OPERATORS
INDUSTRIAL TRUCK AND TRACTOR
EQUIPMENT OPERATORS
MISCELLANEOUS MATERIAL MOVING
EQUIPMENT OPERATORS

HANDLERS, EQUIPMENT CLEANERS, HELPERS,
AND LABORERS:

(2,493) 8097 SUPERVISORS, HANDLERS, EQUIPMENT
CLEANERS, AND LABORERS, H.E.C.
(2,494) 8105 HELPERS, MECHANICS AND REPAIRERS
HELPERS, CONSTRUCTION AND EXTRACTIVE
OCCUPATIONS:
HELPERS, CONSTRUCTION TRADES
HELPERS, SURVEYOR
HELPERS, EXTRACTIVE OCCUPATIONS
CONSTRUCTION LABORERS
PRODUCTION HELPERS
FREIGHT, STOCK, AND MATERIAL HANDLERS:
GARBAGE COLLECTORS
STEVEDORES
STOCK HANDLERS AND BAGGERS
MACHINE FEEDERS AND OFFBEARERS
FREIGHT, STOCK, AND MATERIAL
HANDLERS, H.E.C.
GARAGE AND SERVICE STATION RELATED
OCCUPATIONS
VEHICLE WASHERS AND EQUIPMENT
CLEANERS

EEQ DATA DICTIONARY 03/24/63

RECORD 01

SIZE/
SCALE BEGIN
NAME TYPE NUMBER OF
CELLS

WATER TRANSPORTATION OCCUPATIONS:
SHIP CAPTAINS AND MATES, EXCEPT
FISHING BOATS
SAILORS AND DECKHANDS
MARINE ENGINERS
DRIVER, LOCOMOTIVE
TENDERS

(2,507) 8209
(2,508) 8217
(2,509) 8225
(2,510) 8233
(2,511) 8241
(2,511) 8241
(2,512) 8249
(2,513) 8257
(2,514) 8265

(2,515) 8273 N

SEX (2) BY AGE 171 BT TEARS OF
SCHOOL COMPLETED (\$5)

UNIVERSE: CIVILIAN LABOR FORCE

THE STRATIFIERS ARE
SEX BY
AGE BY
YEARS OF SCHOOL COMPLETED

TAB2

MALE:
16-19 YEARS OF AGE:
(1,1,1) 8273 0-11 YEARS OF SCHOOL
(1,1,2) 8281 12 YEARS OF SCHOOL
(1,1,3) 8289 13-15 YEARS OF SCHOOL
(1,1,4) 8297 16 YEARS OF SCHOOL
(1,1,5) 8305 17 OR MORE YEARS OF SCHOOL

20-24 YEARS OF AGE:
(1,2,1) 8311 0-11 YEARS OF SCHOOL
(1,2,2) 8321 12 YEARS OF SCHOOL
(1,2,3) 8329 13-15 YEARS OF SCHOOL
(1,2,4) 8337 16 YEARS OF SCHOOL
(1,2,5) 8345 17 OR MORE YEARS OF SCHOOL

25-29 YEARS OF AGE:
(1,3,1) 8353 0-11 YEARS OF SCHOOL
(1,3,2) 8361 12 YEARS OF SCHOOL
(1,3,3) 8369 13-15 YEARS OF SCHOOL

* SEE USEFUL THINGS TO KNOW ABOUT THIS FILE

GLOSSARY

The following definitions pertain to data items included in the E20 Special File for Puerto Rico and were taken, with slight modification, from the 1980 Census Users' Guide.

AGE. Age at last birthday, i.e., number of completed years from birth to April 1, 1980, based on replies to a question on month and year of birth. This item was asked on a complete-count basis.

Because of the central importance of the data on age, the question contains redundancies. The age entry on the basic tape record is derived from the FOSDIC entries of quarter and year of birth. For those persons who do not provide this information but who do provide "age at last birthday," the census enumerator or clerk uses an equivalency table to mark the appropriate FOSDIC circles. The item "age at last birthday" is used only secondarily because of the tendency of some people, in reporting their ages, to round off to "0" or "5" (and to report even rather than odd numbers). The write-in entries of month and year of birth are requested because some people have difficulty with (and therefore skip) the FOSDIC marking system in this question.

Limitations: In previous censuses, undercoverage of the population has been associated with age.

Historical comparability: Age data have been collected in each census since 1910.

INDUSTRY AND CLASS OF WORKER. The E20 file shows data on major industry and class of worker subcategories for selected occupation groups. The information on industry and class of worker refer to the same job as the respondent's occupation. The industry statistics are based on the 1980 census detailed classification system developed from the U.S. Standard Industrial Classification (SIC) system. The definitions of the class of worker categories shown in this report are as follows:

Salaried employees. Persons who work for a private employer or for any Federal, Puerto Rico, or municipio governmental unit for wages, salary, commission, tips, pay-in-kind, or at piece rates; this category includes persons who work as employees of their own incorporated business or trade.

Self-employed. Those who work for profit or fees in their own unincorporated business, profession, or trade or who operate a farm or who work without pay in a family business or farm.

LABOR FORCE STATUS. Persons 16 years old and over were classified as to their status in the labor force based on replies to several questions relating to work activity and status during the reference week. These items were asked on a sample basis.

Data on labor force status refer to the calendar week prior to the date on which respondents were interviewed by enumerators. Since the week of enumeration was not the same for all persons, the reference week for labor force data is not entirely uniform. For many persons, however, the reference week for answering the 1980 census employment questions was the last week in March, 1980.

Labor force. Members of the Armed Forces and the civilian labor force as defined below.

Armed Forces. Persons 16 years old and over on active duty in the Army, Air Force, Navy, Marine Corps and Coast Guard, (indicated in responses to the question on industry). Members of the merchant marine and civilian employees of the Department of Defense are not members of the Armed Forces. Service in a National Guard or reserve unit for short periods of active duty for training does not count as active duty in the Armed Forces. Armed Forces members are not included in the RSO file.

Civilian labor force. Employed and unemployed civilians.

Employed. Civilians 16 years old and over who were either (a) "at work"--those who did any work at all as paid employees or in their own business or profession, or on their own farm, or who worked 15 hours or more as unpaid workers on a family farm or in a family business; or (b) "with a job but not at work"--those who did not work during the reference week but had jobs or businesses from which they were temporarily absent due to illness, bad weather, industrial dispute, vacation, or other personal reasons. Excluded from the employed are persons whose only activity consisted of work around the house or volunteer work for religious, charitable, and similar organizations.

Unemployed. Civilians 16 years old and over who were neither "at work" nor "with a job, but not at work" and who were a) looking for work during the last 4 weeks, and b) available to accept a job.

Examples of jobseeking activities are: (1) registering at a public or private employment office, (2) meeting with prospective employers, (3) checking with friends or relatives, (4) placing or answering advertisements, (5) writing letters of application, and (6) being on a union or professional register.

Also included as unemployed are persons who did not work at all during the reference week and were waiting to be called back to a job from which they had been laid off.

The concept of experienced unemployed is discussed on the following page under Experienced Civilian Labor Force.

Unemployed, no civilian work experience since 1975. Persons are classified as unemployed with no civilian work experience since 1975 if they reported themselves as unemployed in 1980 and one of the following: (1) their last job since 1975 was in the Armed Forces; or (2) they last worked in 1974 or earlier; or (3) they reported that they had never worked.

In addition to the above classification, the concept of Experienced Civilian Labor Force appears in certain detailed tabulations.

Experienced Civilian Labor Force. The BEO file includes employed persons and those unemployed persons who have worked at any time in the past, i.e., "experienced unemployed." (Occupation and industry data were not collected for persons who have never worked, or who have not worked since 1974.) Excluding those persons in the category "unemployed, no civilian work experience since 1975," the BEO file essentially defines the experienced civilian labor force.

Comparability with data from other sources. Because employment data from the census are obtained from respondents in households, they differ from statistics based on reports from individual business establishments, farm enterprises, and certain government programs. Persons employed at more than one job are counted only once in the census and are classified according to the job at which they worked the greatest number of hours during the reference week. In statistics based on reports from business and farm establishments, persons who work for more than one establishment may be counted more than once. Moreover, other series, unlike those presented here, may exclude private household workers, unpaid family workers, and self-employed persons, but may include workers less than 16 years of age.

Historical comparability: The labor force data shown in this file and other 1980 census reports relate to persons 16 years and over. In 1940, 1950, and 1960, labor force data were published for persons 14 years old and over. In 1970, most labor force data were for persons 16 years old and over to comply with the official Government definition of employed and unemployed instituted in 1967, although data on 14- and 15-year olds were furnished in 1970 to provide a comparability bridge with earlier censuses.

MUNICIPIOS. In Puerto Rico the primary divisions are termed municipios. Each municipio has legally established boundaries and constitutes a governmental unit. Two municipios have been created since 1970, Canóvanas and Florida, which were separated from Loíza and Barceloneta Municipios, respectively. Each municipio, with the exception of Florida, contains a ciudad or pueblo in which the seat of government is located. Florida municipio has its seat of government in the Florida Adentro barrio.

OCCUPATION. The kind of work the person was doing at a job or business during the reference week or, if not at work, at the most recent job or business if employed since 1975. Persons working at more than one job were instructed to describe the one at which the person worked the most hours during the reference week. Occupation is most frequently tabulated for employed persons 16 years old and over, and less often for the experienced civilian labor force, which

includes both employed and experience unemployed 16 years old and over. Occupation data were also collected but are not tabulated for persons not currently in the labor force who have worked since 1975. Occupation is not determined for persons in the Armed Forces. These data were collected on a sample basis.

The write-in responses to questions 29a and 29b were taken together to assign the respondent to one of 503 occupation categories, coded by specially trained industry and occupation coders in census processing offices. Only the code, i.e., none of the written-in information, is retained on census basic records and public-use microdata. Census occupation categories are fully defined in the Classified Index of Industries and Occupations, PHC80-R3. (Persons wishing to use the census system in coding other data bases may use the Alphabetical Index of Industries and Occupations, PHC80-R4.)

Relation to Standard Occupational Classification. The 503 occupation categories generally are based on the Standard Occupational Classification (SOC) system, originally issued in 1977 by the Office of Federal Statistical Policy and Standards and revised in 1980. One of the major purposes of the SOC is to promote uniformity and comparability in the presentation of occupational data collected by various agencies. Public-use microdata documentation and other references will define the relationship between the 3-digit census codes and the revised 4-digit SOC codes.

Summary and major occupation categories are as follows:

- Managerial and professional specialty occupations:
 - Executive, administrative, and managerial occupations
 - Professional specialty occupations
- Technical, sales, and administrative support occupations:
 - Technicians and related support occupations
 - Sales occupations
 - Administrative support occupations, including clerical
- Service occupations:
 - Private household occupations
 - Protective service occupations
 - Service occupations, except protective and household
- Farming, forestry, and fishing occupations
- Precision production, craft, and repair occupations
- Operators, fabricators, and laborers:
 - Machine operators, assemblers, and inspectors
 - Transportation and material moving occupations
 - Handlers, equipment cleaners, helpers, and laborers

This file shows detailed occupations. The detailed census categories, and the Standard Occupational Classification definition for each are listed in Appendix A.

Historical comparability: The major difference in occupation data for 1970 and 1980 stems from the adaptation of census occupation coding to the new Standard Occupational Classification system, first issued in 1977. While many of the broad categories observed in the 1980 scheme have been designed to offer a general measure of compatibility with many 1970 categories, the principles governing the classification and many of the detailed categories have been altered substantially. Reference materials on the relationships of 1970 and 1980 occupation classifications are being prepared. For more information, contact Population Division, Bureau of the Census.

PLACES. Two types of places are recognized in the stateside census reports--incorporated places and census designated places--as defined below.

Incorporated Places. Incorporated places are those which are incorporated under the laws of their respective states as cities, boroughs, towns, and villages. There are no incorporated places in Puerto Rico. Although ciudades (cities) and pueblos (towns) in Puerto Rico have legally established limits, they are not incorporated and are recognized for census purposes as municipio subdivisions rather than places.

Census Designated Places. As in the 1950, 1960, and 1970 censuses, the Census Bureau, in cooperation with the Puerto Rico government, delineated boundaries for closely settled population centers without corporate limits. In 1980, such places are referred to as "census designated places" (CDP'S). In Puerto Rico, the CDP's are called "zonas urbanas" and "aldeas." To be recognized for the 1980 census, aldeas must have a minimum 1980 population of 1,000; however, zonas urbanas are recognized regardless of population size.

Zona urbana and aldea boundaries change with changes in the settlement pattern; a place which has the same name as in previous censuses does not necessarily have the same boundaries. Boundary outlines for zonas urbanas and aldeas are shown on the municipio subdivision maps. These maps are available for purchase from the Census Bureau.

Zonas Urbanas. Zonas urbanas are composed of the municipio seat of government--i.e., a ciudad or pueblo (except in Florida Municipio)--and the adjacent built-up area. Zonas urbanas are delineated by the Puerto Rico Planning Board under authorization of the Puerto Rico Planning Act of 1975. Figures are published for all zonas urbanas regardless of the number of inhabitants. In 1970, zonas urbanas were incorrectly referred to as ciudades and pueblos, simultaneously disregarding the legal ciudad/pueblo boundaries. Zonas urbanas had not been recognized prior to the 1970 census.

Aldeas. Aldeas are closely settled population centers with no legally defined limits. The aldea boundaries were delineated by the Puerto Rico Planning Board following procedures established by the Census Bureau. To be recognized in the 1980 census, aldeas must have a minimum 1980 population of 1,000 inhabitants.

PUERTO RICO. The 78 municipios are the constituent units of Puerto Rico.

SCHOOL YEARS COMPLETED. Data on years of school completed are derived from two questions, one identifying the highest grade attended in regular school, the second determining whether the respondent finished the grade specified. These data were collected on a sample basis.

The number tabulated in each category of years of school completed includes (a) persons who reported that they had attended the indicated grade and had finished it, (b) those who had attended but did not complete the next higher grade and (c) those still attending the next higher grade. The EEO file tabulation of years of school completed is restricted to persons 16 years old and over in the civilian labor force. Tabulations include persons in school as well as those who have completed their schooling. Years of school completed is reported as follows:

Elementary:	0 to 4 years 5 to 7 years 8 years	Tabulated on EEO file as 0-11 years
High School:	1 to 3 years 4 years	Tabulated on EEO file as 12 years
College:	1 to 3 years 4 or more years More than 4 years	Tabulated on EEO file as 13-15 years Tabulated on EEO file as 16 years Tabulated on EEO file as 17 or more years

Historical Comparability: Questions on years of school completed have been asked in censuses since 1950.

STANDARD METROPOLITAN STATISTICAL AREAS. The general concept of a metropolitan area is one of a large population nucleus, together with adjacent communities which have a high degree of economic and social integration with that nucleus. The standard metropolitan statistical area (SMSA) classification is a statistical standard developed for use by Federal agencies in the production, analysis, and publication of data on metropolitan areas. The SMSA's are designated and defined by the Office of Management and Budget, following a set of official published standards developed by the interagency Federal Committee on Standard Metropolitan Statistical Areas.

Each SMSA in Puerto Rico has one or more central municipios containing the area's main population concentration: an urbanized area with at least 50,000 inhabitants. An SMSA may also include outlying municipios which have close economic and social relationships with the central municipios. An outlying municipio must have a specified level of commuting to the central municipios and must also meet certain standards regarding metropolitan character, such as population density, urban population and population growth.

The population living in SMSA's may be referred to as the metropolitan population. The population is subdivided into "inside central city (or cities)" and "outside central city (or cities)." The population living outside SMSA's constitutes the nonmetropolitan population.

Most SMSA's have at least one central city. The titles of SMSA's may include up to three place names. For the 1980 census, central cities of SMSA's are those named in the titles of the SMSA's. In Puerto Rico, zonas urbanas and aldeas may be recognized as central cities.

New standards for designating and defining metropolitan statistical areas were published in the Federal Register on January 3, 1980. The SMSA's recognized for the 1980 census comprise (1) all areas, including four in Puerto Rico, as defined on January 1, 1980, except for one area which was defined provisionally during the 1970's on the basis of population estimates but whose qualification was not confirmed by 1980 census counts; and (2) a group of 36 new areas, including one in Puerto Rico (Arecibo), defined on the basis of 1980 census counts and the new standards that were published on January 3, 1980.

The new standards will not be applied to the areas existing on January 1, 1980, until after data on commuting flows become available from 1980 census tabulations. At that time, the boundaries, definitions, and titles for all SMSA's will be reviewed.

To aid users who want to become familiar with the SMSA standards and how they are applied, documents are available from the Office of Management and Budget, Washington, D.C. 20503.

OVERVIEW

1980 Census Summary Tape Program

Computer-readable data from the 1980 census include both summary data and microdata. Summary data include Summary Tape Files (STF's) 1 to 5, which are generally comparable to the First Count through Sixth Count files from the 1970 census. In addition to the files in the STF series, other summary data for Puerto Rico released by the Bureau include the Master Area Reference File which provides geographic items from STF 1 and selected population and housing items. All of these files contain data summarized to various levels of geography. Microdata files, on the other hand, contain disclosure-free household and person records from the census. These files are similar to the 1970 Public Use Sample files. Files are being released on a State-by-State basis.

Content and Geographic Coverage of Summary Tape Files

Summary Tape Files vary by summary level of geography, detail of information, and whether they include 100-percent or sample data. STF's 1 and 2 provide data based on the set of census questions asked of all persons and housing units. These data are 100-percent data. STF's 3, 4, and 5 are based on sample data. These data are estimates based on the responses of a sample of the population and housing units and contain more extensive housing and population information.

The geographic detail of STF 1 is the maximum possible detail available from the census: data for individual blocks in block-numbered areas and for enumeration districts outside block-numbered areas. The lowest level of geography provided by STF 2 is census tract, or minor civil division/(MCD) and places of 1,000 or more inhabitants in nontracted areas. The lowest level for STF 3 is the block group or enumeration district, while the smallest geographic unit for STF 4 is census tract, or MCD and places of 2,500 or more inhabitants in nontracted areas. STF 5's lowest geographic level is the standard metropolitan statistical area (SMSA), central city(ies), other places of 50,000 or more inhabitants, and municipios of 50,000 or more inhabitants. STF's 1 to 4 each consist of multiple files labeled A, B, etc. Each file features specific levels of geography. Figure 4 on the following page details the geographic levels in each Summary Tape File.

For comparison purposes, STF 1 is similar in subject matter and geographic detail to the First and Third Count files for 1970. STF's 2 and 4 are roughly comparable to the 1970 Second and Fourth Counts, respectively. STF 3 is comparable to the 1970 Fifth Count, while STF 5 corresponds to the 1970 Sixth Count. To summarize, STF 1 contains more detailed geography but less subject matter detail than STF 2. Similarly, STF 3 contains more detailed geography but less subject matter detail than STF 4. STF's 1 and 2 contain compute-count data while STF's 3 and 4 contain sample estimates. Finally, STF 5 contains sample estimates aggregated to a higher level of geography than other files, but which are presented in the most subject matter detail.

Figure 4
OVERVIEW OF PLANNED SUMMARY LEVELS
FOR 1980 CENSUS SUMMARY TAPE FILES

SUMMARY AREA 1/ 2/	STF 1 100 percent			STF 2 100 percent			STF 3 100 percent			STF 4 sample			STF 5 sample			Summary Level Codes 3/
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
United States.....	*						*				*		*			01
Region.....	*						*				*		*			02
Division.....	*						*				*		*			03
State.....	*	*	*	*	*	*	*	*	*	*	*		*			04
SCSA.....	*						*				*		*			05
SCSA within State.....	*						*	*			*		*			06
SMSA.....	*			*			*				*		*			07
SMSA within State.....	*			*			*				*		*			08
Urbanized Area.....	*						*				*		*			09
Urbanized Area within State.....	*						*	*			*		*			10
County within State.....	*	*	*				*	*			*		*			11
MCD (CCD) within County within State.....	*						*				*					12
ED or BG within Tract (BNA) within Place within MCD (CCD) within County within State.....	*															13,14
County within SMSA within State.....	*						*									15,16
ED or Block within Tract (BNA) within Place within MCD (CCD) within County within SMSA within State.....	*															17
ED or Block within Tract (BNA) within Place within County within SMSA within State.....	*															18,19,20
Place within State.....	*															21,22
Tract (BNA) within Place within County within SMSA within State.....	*															23,24
ED or Block within Tract (BNA) within Place within County within SMSA within State.....	*															25,26
Place within State.....	*	*	*				*	*	*	*	*		*			27
MCD (CCD) within State.....	*	*	*				*	*	*	*	*		*			28
Indian Reservation and Alaskan Native Village.....							*						*			29
Indian Reservation and Alaskan Native Village within County within State.....							*	*					*			30,31
Tract within County within SMSA within State...							*						*			32
Congressional Districts within State of the 97th Congress.....	*	*	*													33
Congressional Districts within State of the 98th Congress.....				*												34
ZIP Code (5 digit) within State.....																35
ZIP Code (5 digit) within County within SMSA within State.....																36
County or Place or MCD within Congressional District within State.....													*			37,38,39
North Dakota CDP within County.....																34
School District.....				*									*			40
County within School District.....				*									*			41
Neighborhood Publication Area.....				*									*			42
Neighborhood within Neighborhood Publication Area.....				*									*			43

Footnotes to Figure 4

- 1/ In addition to summary areas presented on the Summary Tape Files, geographic area codes are included for areas such as Ward, State Economic Area, District Office, Indian Subreservation, and Standard Federal Administrative Region.
- 2/ Population size cutoffs for the presentation of Place level data in the STF's are as follows:

STF 1A all places	STF 3A all places
STF 1B all places	STF 3B All 5-digit zip code areas
STF 1C 10,000 or more	STF 3C 10,000 or more
STF 1D 10,000 or more	
STF 2A 10,000 or more	STF 4A 10,000 or more
STF 2B 1,000 or more	STF 4B 2,500 or more
STF 2C 10,000 or more	STF 4C 10,000 or more
STF 5 50,000 or more	

- 3/ Multiple summary level codes for a Summary Area indicate a series of very similar summary levels which are presented in identical STF files. A specific listing is shown below of summary levels which are grouped together from the chart. (A slash mark "/" is used to indicate "within.")

Grouping 13, 14, 15, and 16:

13. Place/MCD (CCD)/County/State
14. Tract (BNA)/Place/MCD (CCD)/County/State
15. BG/Tract (BNA)/Place/MCD (CCD)/County/State
16. ED/Tract/Place/MCD (CCD)/County/State

Grouping 18, 19, 20, 21, and 22:

18. MCD (CCD)/County/SMSA/State
19. Place/MCD (CCD)/County/SMSA/State
20. Tract (BNA)/Place/MCD (CCD)/County/SMSA/State
21. Block/Tract (BNA)/Place/MCD (CCD)/County/SMSA/State
22. ED/Tract/Place/MCD (CCD)/County/SMSA/State

Grouping 23 and 24:

23. Place/County/SMSA/State
24. Tract (BNA)/Place/County/SMSA/State

Grouping 25 and 26:

25. Block/Tract (BNA)/Place/County/SMSA/State
26. ED/Tract/Place/County/SMSA/State

Grouping 30 and 31:

30. Indian Reservations and Alaska Native villages by State
31. Indian Reservations and Alaska Native Villages by County within State

Grouping 37, 38, and 39:

37. County/Congressional District/State
38. Place/Congressional District/State
39. MCD/Congressional District/State

1980 Census Maps

The maps used in conjunction with the above summary tape files consist of four basic types: municipio maps, place maps, place-and-vicinity maps, and Metropolitan Map Series (MMS) or Vicinity Map Series (VMS). Ordering information for these maps may be obtained from Data User Services Division, Customer Services (Maps), Bureau of the Census, Washington, D.C. 20233.

All four map types have several characteristics in common:

- To improve legibility, most 1980 maps are at a larger scale than were the comparable 1970 maps. Also, there is a separate set of municipio maps for each municipio.
- Symbols used for the various boundaries are consistent for all four types of maps.
- Names, associated codes, and boundaries are shown where appropriate on all maps for municipios, minor civil divisions (MCD's), places, census tracts or block numbering areas (RNA's) where present, enumeration districts (ED's) (in those areas which are not block numbered), and blocks.
- All maps show metric, feet, and mile scales.
- All maps containing block-numbered areas will be available from the U.S. Government Printing Office.

The following paragraphs present a brief description of each type of map.

Municipio Maps. Municipio maps are the backbone of the Bureau's map coverage for Puerto Rico. Theoretically, with a complete set of these maps the overall picture of the census geographic framework for all of Puerto Rico is shown. Most maps in the municipio series are at a scale of 1:20,000, or about 3 inches to the mile. Municipio maps were created by superimposing boundaries of areas for which data are tabulated on maps reformatted by the Bureau from base maps prepared by the U.S. Geological Survey (USGS), and updated by local government agencies in Puerto Rico. The following geographic area boundaries are shown on municipio maps where appropriate: municipios, minor civil divisions, places, census tracts or block numbering areas (RNA's), and enumeration districts (ED's) or numbered blocks.

Place Maps. For places not covered on MMS or VMS sheets where most of the development is contained within the boundaries established for them, the Bureau uses place maps. The scale of place maps varies from place to place. Most were created by superimposing boundaries for areas for which data are tabulated on base maps supplied by the Puerto Rico government. On the municipio map, shading is added to indicate the area covered by the place map; i.e., the place map is regarded as an inset to the municipio map. The geographic area boundaries shown on place maps are the same as for municipio maps.

Place-and-Vicinity Maps. For places not covered on MMS or VMS sheets, but for which geographic areas are shown outside the boundaries established for a place, the Bureau uses place-and vicinity maps. Also included in this category are

maps of two or more places that appear on the same map sheet. In all other respects, place-and-vicinity maps have the same characteristics as place maps. As with the place maps, all area covered by the place-and-vicinity map is shaded on the municipio map and the place-and-vicinity map is considered to be an inset to the municipio map. The geographic area boundaries defined on place-and-vicinity maps are the same as those specified for municipio maps.

Metropolitan Map Series/Vicinity Map Series (MMS/VMS). For the major built-up areas of Puerto Rico, the Bureau has developed its own maps to provide uniform coverage of such areas. These maps are referred to as the Metropolitan Map Series (MMS) when the maps cover areas within an SMSA and as the Vicinity Map Series (VMS) when the maps cover areas which are not in an SMSA. The scale for the MMS and VMS is 1:20,000, or about 1 inch represents 1,667 feet. In selected areas with very dense development, some sheets are at 1:10,000, or about 1 inch represents 833 feet. The MMS and VMS are considered to be insets to the municipio maps and the areas covered by MMS and VMS are shaded on municipio maps; in a few instances, MMS/VMS map sheets entirely cover a municipio, in which case no separate municipio map exists. The geographic area boundaries shown on the MMS and VMS are the same as those specified for municipio maps, but also include the boundaries of urbanized areas.

In addition to the four types of maps described above, there are a number of "outline" maps (maps that do not show any data, only the areas to which data can be related) that are prepared and published as part of the various printed report series. As was the case with the maps previously described, the maps included in the printed reports share common characteristics. Both metric and mile scales are shown. Map scale and content are similar to 1970 except where noted below; however, presentation has been improved to make the maps more readable and consistent from series to series.

The Municipio Subdivision Map Series consists of 22 pages showing the names and boundaries for each municipio, minor civil division (MCD), and place. The scale of the Puerto Rico map requires that it be presented in sections. For 1980, the boundaries (not just the locations) of places with fewer than 2,500 inhabitants are shown for the first time. The maps are derived from the base maps of the U.S. Geological Survey National Mapping Program and appear in PC80-1-A,-B and HC80-1-A. Single-sheet versions of the municipio subdivision map series also will be published; the map for Puerto Rico is tentatively planned to be at a scale of 1:240,000, or about 1 inch representing 3.8 miles.

The Urbanized Area Outline Map Series consists of one or more map sheets for each urbanized area (UA) defined on the basis of the 1980 census results. The names and boundaries of all municipios, MCD's, and places in and adjacent to the area are shown, plus the extent of territory defined as "urbanized." These maps appear in PC80-1-A and HC80-1-A.

The SCSA/SMSA Outline Map shows municipio names and boundaries, names and locations of all places with a population of 25,000 or more or designated as the central city of an SMSA, and names and boundaries of the standard consolidated statistical area (SCSA) and standard metropolitan statistical areas (SMSA's). These maps appear in PC80-1-A,-B,-C,-D; HC80-1-A,-B; and HC80-2.

The Census Tract Outline Map Series covers each of the areas for which tracts have been defined for 1980. These maps show the boundaries and code

identification number for each census tract; the names of streets or other features used as census tract boundaries; and the names and boundaries of municipios, MCD's, and all places (not just those over 25,000 as in 1970). Street detail within tracts is not shown. Separate insets of larger scale than the base maps are included for densely developed areas; however, fewer insets are used than in 1970. Scale varies from map to map. For 1980, tract outline maps will be prepared for tracted municipios outside SMSA's. These maps appear in PHC80-2 and are also available separately.

Map sets will be printed for all block-numbered areas, grouped by SMSA and the nonSMSA portion of Puerto Rico. In addition to the printed copies of the municipio, place, place-and-vicinity, and Metropolitan Map Series/Vicinity Map Series (MMS/VMS) sheets having block-numbered areas, there will be an index map depicting the extent of the block-numbered area for each SMSA and for Puerto Rico. The SMSA Index to Block Numbered Areas Maps shows the extent of the SMSA; municipio, MCD, and place names and boundaries; and the extent of block-numbered area within the SMSA, shown by means of shading. The Puerto Rico Index to Block-Numbered Areas Map was prepared by superimposing the extent of all block-numbered areas in Puerto Rico over the municipio subdivision map. This index map also shows the boundaries of the SMSA(s) so that the reader can determine whether the data for any block-numbered area are available with the SMSA tabulations or the balance-of-Puerto Rico tabulations.

Relevant Articles and Publications

The following is a list of reference materials which provide additional information concerning the 1980 census.

1980 Census of Population and Housing Users' Guide. This publication is a comprehensive guide to 1980 census data. It covers 1980 census subject content, procedures, geography, statistical products, limitations of the data, sources of user assistance, notes on data use, a glossary of terms, and guides for locating data in reports and tape files. The guide is issued in loose-leaf form and sold in parts (R1-A, -B, etc.) as they are prepared. Part A, Text and Part B, Glossary (published as part of Supplement 1 to the Users' Guide) are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Part A: S/N 003-024-03625-8. Price is \$5.50. Supplement 1 (including Part B): S/N 003-024-05004-8. Price is \$6.00.

Census '80: Continuing the Factfinder Tradition. This publication, originally prepared for college classes, examines the history, organization, products, services, and uses of the 1980 census and is available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. S/N 003-024-02262-1. Price is \$7.50.

Data User News. This monthly newsletter provides continuous reporting on Census Bureau programs and products. A subscription is available from the Government Printing Office for \$20 a year.

Monthly Product Announcement (MPA). This free announcement lists new products released each month from the Census Bureau. These products include publications, technical documentation, data files, published maps, and microfiche. To be added to the mailing list, contact Data User Services Division, Customer Services (Publications), Bureau of the Census, Washington, D.C. 20233.

APPENDIX A

CENSUS/BEO SPECIAL FILE
DETAILED OCCUPATION STUB

[The numbers in parentheses refer to the 1980 Standard Occupational Classification (SOC) code equivalents. Pt means part. N.e.c. means not elsewhere classified.]

Note: The summary groups and the codes (1980 and SOC) are not contained on the BEO Special File.

MANAGERIAL AND PROFESSIONAL SPECIALTY OCCUPATIONS

1980	
<u>CODE</u>	Executive, Administrative, and Managerial Occupations
003	Legislators (111)
004	Chief executives and general administrators, public administration (112)
005	Administrators and officials, public administration (1132-1139)
006	Administrators, protective services (1131)
007	Financial managers (122)
008	Personnel and labor relations managers (123)
009	Purchasing managers (124)
013	Managers, marketing, advertising, and public relations (125)
014	Administrators, education and related fields (128)
015	Managers, medicine and health (131)
016	Managers, properties and real estate (1353)
017	Postmasters and mail superintendents (1344)
018	Funeral directors (pt 1359)
(019)	Managers and administrators, n.e.c., salaried (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
(019)	Managers and administrators, n.e.c., self-employed (121, 126, 127, 132-139, exc. 1344, 1353, pt 1359)
	Management Related Occupations
023	Accountants and auditors (1412)
024	Underwriters (1414)
025	Other financial officers (1415, 1419)
026	Management analysts (142)
027	Personnel, training, and labor relations specialists (143)
028	Purchasing agents and buyers, farm products (1443)
029	Buyers, wholesale and retail trade except farm products (1442)
033	Purchasing agents and buyers, n.e.c. (1449)
034	Business and promotion agents (145)
035	Construction inspectors (1472)
036	Inspectors and compliance officers, except construction (1473)
037	Management related occupations, n.e.c. (149)

Professional Specialty Occupations

- Engineers, Architects, and Surveyors
 - Architects (161)
 - Engineers
 - Aerospace (1622)
 - Metallurgical and materials (1623)
 - Mining (1624)
 - Petroleum (1625)
 - Chemical (1626)
 - Nuclear (1627)
 - Civil (1628)
 - Agricultural (1632)
 - Electrical and electronic (1633)
 - Industrial (1634)
 - Mechanical (1635)
 - Marine and naval architects (1637)
 - Engineers, n.e.c. (1639)
 - Surveyors and mapping scientists (164)
- Mathematical and Computer Scientists
 - Computer systems analysts and scientists (171)
 - Operations and systems researchers and analysts (172)
 - Actuaries (1732)
 - Statisticians (1733)
 - Mathematical scientists, n.e.c. (1739)
- Natural Scientists
 - Physicists and astronomers (1842, 1843)
 - Chemists, except biochemists (1845)
 - Atmospheric and space scientists (1846)
 - Geologists and geodesists (1847)
 - Physical scientists, n.e.c. (1849)
 - Agricultural and food scientists (1853)
 - Biological and life scientists (1854)
 - Forestry and conservation scientists (1852)
 - Medical scientists (1855)
- Health Diagnosing Occupations
 - Physicians (261)
 - Dentists (262)
 - Veterinarians (27)
 - Optometrists (281)
 - Podiatrists (283)
 - Health diagnosing practitioners, n.e.c. (289)
- Health Assessment and Treating Occupations
 - Registered nurses (29)
 - Pharmacists (301)
 - Dietitians (302)
 - Therapists
 - Inhalation therapists (3031)
 - Occupational therapists (3032)
 - Physical therapists (3033)
 - Speech therapists (3034)
 - Therapists, n.e.c. (3039)
 - Physicians' assistants (304)

Teachers, Postsecondary

113 Earth, environmental, and marine science teachers (2212)
114 Biological science teachers (2213)
115 Chemistry teachers (2214)
116 Physics teachers (2215)
117 Natural science teachers, n.e.c. (2216)
118 Psychology teachers (2217)
119 Economics teachers (2218)
123 History teachers (2222)
124 Political science teachers (2223)
125 Sociology teachers (2224)
126 Social science teachers, n.e.c. (2225)
127 Engineering teachers (2226)
128 Mathematical science teachers (2227)
129 Computer science teachers (2228)
133 Medical science teachers (2231)
134 Health specialties teachers (2232)
135 Business, commerce, and marketing teachers (2233)
136 Agriculture and forestry teachers (2234)
137 Art, drama, and music teachers (2235)
138 Physical education teachers (2236)
139 Education teachers (2237)
143 English teachers (2238)
144 Foreign language teachers (2242)
145 Law teachers (2243)
146 Social work teachers (2244)
147 Theology teachers (2245)
148 Trade and industrial teachers (2246)
149 Home economics teachers (2247)
153 Teachers, postsecondary, n.e.c. (2249)
154 Postsecondary teachers, subject not specified
Teachers, Except Postsecondary
155 Teachers, prekindergarten and kindergarten (231)
156 Teachers, elementary school (232)
157 Teachers, secondary school (233)
158 Teachers, special education (235)
159 Teachers, n.e.c. (236, 239)

163 Counselors, educational and vocational (24)
Librarians, Archivists, and Curators
164 Librarians (251)
165 Archivists and curators (252)

Social Scientists and Urban Planners

166 Economists (1912)
167 Psychologists (1915)
168 Sociologists (1916)
169 Social scientists, n.e.c. (1913, 1914, 1919)
173 Urban planners (192)

	Social, Recreation, and Religious Workers
174	Social workers (2032)
175	Recreation workers (2033)
176	Clergy (2042)
177	Religious workers, n.e.c. (2049)
	Lawyers and Judges
178	Lawyers (211)
179	Judges (212)
	Writers, Artists, Entertainers, and Athletes
183	Authors (321)
184	Technical writers (398)
185	Designers (322)
186	Musicians and composers (323)
187	Actors and directors (324)
188	Painters, sculptors, craft-artists, and artist printmakers (325)
189	Photographers (326)
193	Dancers (327)
194	Artists, performers, and related workers, n.e.c. (328, 329)
195	Editors and reporters (331)
197	Public relations specialists (332)
198	Announcers (333)
199	Athletes (34)

TECHNICAL, SALES, AND ADMINISTRATIVE SUPPORT OCCUPATIONS

	Technicians and Related Support Occupations
	Health Technologists and Technicians
203	Clinical laboratory technologists and technicians (362)
204	Dental hygienists (363)
205	Health record technologists and technicians (364)
206	Radiologic technicians (365)
207	Licensed practical nurses (366)
208	Health technologists and technicians, n.e.c. (369)
	Technologists and Technicians, Except Health
	Engineering and Related Technologists and Technicians
213	Electrical and electronic technicians (3711)
214	Industrial engineering technicians (3712)
215	Mechanical engineering technicians (3713)
216	Engineering technicians, n.e.c. (3719)
217	Drafting occupations (372)
218	Surveying and mapping technicians (373)
	Science Technicians
223	Biological technicians (382)
224	Chemical technicians (3831)
225	Science technicians, n.e.c. (3832, 3833, 384, 389)

- Technicians, Except Health, Engineering, and Science
- 226 Airplane pilots and navigators (825)
227 Air traffic controllers (392)
228 Broadcast equipment operators (393)
229 Computer programmers (3971, 3972)
233 Tool programmers, numerical control (3974)
234 Legal assistants (396)
235 Technicians, n.e.c. (399)
- Sales Occupations
- (243) Supervisors and proprietors, sales occupations, salaried (40)
(243) Supervisors and proprietors, sales occupations, self-employed (40)
- Sales Representatives, Finance and Business Services
- 253 Insurance sales occupations (4122)
254 Real estate sales occupations (4123)
255 Securities and financial services sales occupations (4124)
256 Advertising and related sales occupations (4153)
257 Sales occupations, other business services (4152)
- Sales Representatives, Commodities Except Retail
- 258 Sales engineers (421)
259 Sales representatives, mining, manufacturing, and wholesale (423, 424)
- Sales Workers, Retail and Personal Services
- 263 Sales workers, motor vehicles and boats (4342, 4344)
264 Sales workers, apparel (4346)
265 Sales workers, shoes (4351)
266 Sales workers, furniture and home furnishings (4348)
267 Sales workers; radio, TV, hi-fi, and appliances (4343, 4352)
268 Sales workers, hardware and building supplies (4353)
269 Sales workers, parts (4367)
274 Sales workers, other commodities (4345, 4347, 4354, 4356, 4359,
 4362, 4369)
275 Sales counter clerks (4363)
276 Cashiers (4364)
277 Street and door-to-door sales workers (4366)
278 News vendors (4365)
- Sales Related Occupations
- 283 Demonstrators, promoters and models, sales (445)
284 Auctioneers (447)
285 Sales support occupations, n.e.c. (444, 446, 449)
- Administrative Support Occupations, Including Clerical
- Supervisors, Administrative Support Occupations
- 303 Supervisors, general office (4511, 4513, 4514, 4516, 4519, 4529)
304 Supervisors, computer equipment operators (4512)
305 Supervisors, financial records processing (4521)
306 Chief communications operators (4523)
307 Supervisors; distribution, scheduling, and adjusting clerks
 (4522, 4524-4528)

Computer equipment operators
308 Computer operators (4612)
309 Peripheral equipment operators (4613)

Secretaries, Stenographers and Typists
313 Secretaries (4622)
314 Stenographers (4623)
315 Typists (4624)

Information Clerks
316 Interviewers (4642)
317 Hotel clerks (4643)
318 Transportation ticket and reservation agents (4644)
319 Receptionists (4645)
323 Information clerks, n.e.c. (4649)

Records Processing Occupations, Except Financial
325 Classified-ad clerks (4662)
326 Correspondence clerks (4663)
327 Order clerks (4664)
328 Personnel clerks, except payroll and timekeeping (4692)
329 Library clerks (4694)
335 File clerks (4696)
336 Records clerks (4699)

Financial Records Processing Occupations
337 Bookkeepers, accounting, and auditing clerks (4712)
338 Payroll and timekeeping clerks (4713)
339 Billing clerks (4715)
343 Cost and rate clerks (4716)
344 Billing, posting, and calculating machine operators (4718)

Duplicating, Mail and Other Office Machine Operators
345 Duplicating machine operators (4722)
346 Mail preparing and paper handling machine operators (4723)
347 Office machine operators, n.e.c. (4729)

Communications Equipment Operators
348 Telephone operators (4732)
349 Telegraphers (4733)
353 Communications equipment operators, n.e.c. (4739)

Mail and Message Distributing Occupations
354 Postal clerks, exc. mail carriers (4742)
355 Mail carriers, postal service (4743)
356 Mail clerks, exc. postal service (4744)
357 Messengers (4745)

Material Recording, Scheduling, and Distributing Clerks
359 Dispatchers (4751)
363 Production coordinators (4752)
364 Traffic, shipping, and receiving clerks (4753)
365 Stock and inventory clerks (4754)
366 Meter readers (4755)
368 Weighers, measurers, and checkers (4756)
369 Samplers (4757)
373 Expeditors (4758)
374 Material recording, scheduling, and distributing clerks, n.e.c. (4759)

Adjusters and Investigators

- 375 Insurance adjusters, examiners, and investigators (4782)
- 376 Investigators and adjusters, except insurance (4783)
- 377 Eligibility clerks, social welfare (4784)
- 378 Bill and account collectors (4786)

Miscellaneous Administrative Support Occupations

- 379 General office clerks (463)
- 383 Bank tellers (4791)
- 384 Proofreaders (4792)
- 385 Data-entry keyers (4793)
- 386 Statistical clerks (4794)
- 387 Teachers' aides (4795)
- 389 Administrative support occupations, n.e.c. (4787, 4799)

SERVICE OCCUPATIONS

Private Households Occupations

- 403 Launderers and ironers (503)
- 404 Cooks, private household (504)
- 405 Housekeepers and butlers (505)
- 406 Child care workers, private household (506)
- 407 Private household cleaners and servants (502, 507, 509)

Protective Service Occupations

Supervisors, Protective Service Occupations

- 413 Supervisors, firefighting and fire prevention occupations (5111)
 - 414 Supervisors, police and detectives (5112)
 - 415 Supervisors, guards (5113)
- Firefighting and Fire Prevention Occupations**
- 416 Fire inspection and fire prevention occupations (5122)
 - 417 Firefighting occupations (5123)
- Police and Detectives**
- 418 Police and detectives, public service (5132)
 - 423 Sheriffs, bailiffs, and other law enforcement officers (5134)
 - 424 Correctional institution officers (5133)
- Guards**
- 425 Crossing guards (5142)
 - 426 Guards and police, exc. public service (5144)
 - 427 Protective service occupations, n.e.c. (5149)

Service Occupations, Except Protective and Household

Food Preparation and Service Occupations

- 433 Supervisors, food preparation and service occupations (5211)
- 434 Bartenders (5212)
- 435 Waiters and waitresses (5213)
- 436 Cooks, except short order (5214)
- 437 Short-order cooks (5215)
- 438 Food counter, fountain and related occupations (5216)
- 439 Kitchen workers, food preparation (5217)
- 443 Waiters'/waitresses' assistants (5218)
- 444 Miscellaneous food preparation occupations (5219)

Health Service Occupations
445 Dental assistants (5232)
446 Health aides, except nursing (5233)
447 Nursing aides, orderlies, and attendants (5236)

Cleaning and Building Service Occupations, except Household
448 Supervisors, cleaning and building service workers (5241)
449 Maids and housemen (5242, 5249)
453 Janitors and cleaners (5244)
454 Elevator operators (5245)
455 Pest control occupations (5246)

Personal Service Occupations
456 Supervisors, personal service occupations (5251)
457 Barbers (5252)
458 Hairdressers and cosmetologists (5253)
459 Attendants, amusement and recreation facilities (5254)
463 Guides (5255)
464 Ushers (5256)
465 Public transportation attendants (5257)
466 Baggage porters and bellhops (5262)
467 Welfare service aides (5263)
468 Child care workers, except private household (5264)
469 Personal service occupations, n.e.c. (5258, 5269)

FARMING, FORESTRY, AND FISHING OCCUPATIONS

Farm operators and managers
473 Farmers, except horticultural (5512-5514)
474 Horticultural specialty farmers (5515)
475 Managers, farms, except horticultural (5522-5524)
476 Managers, horticultural specialty farms (5525)

Farm Occupations, Except Managerial
477 Supervisors, farm workers (5611)
479 Farm workers (5612-5617)
483 Marine life cultivation workers (5618)
484 Nursery workers (5619)

Related Agricultural Occupations
485 Supervisors, related agricultural occupations (5621)
486 Groundskeepers and gardeners, except farm (5622)
487 Animal caretakers, except farm (5624)
488 Graders and sorters, agricultural products (5625)
489 Inspectors, agricultural products (5627)

Forestry and Logging Occupations
494 Supervisors, forestry and logging workers (571)
495 Forestry workers, except logging (572)
496 Timber cutting and logging occupations (573, 579)

Fishers, Hunters, and Trappers
497 Captains and other officers, fishing vessels (pt 8241)
498 Fishers (583)
499 Hunters and trappers (584)

PRECISION PRODUCTION, CRAFT, AND REPAIR OCCUPATIONS

- Mechanics and Repairers**
- 503 Supervisors, mechanics and repairers (60)
 Mechanics and Repairers, Except Supervisors
 Vehicle and Mobile Equipment Mechanics and Repairers
 Automobile mechanics, except apprentices (pt 6111)
 Automobile mechanic apprentices (pt 6111)
 Bus, truck, and stationary engine mechanics (6112)
 Aircraft engine mechanics (6113)
 Small engine repairers (6114)
 Automobile body and related repairers (6115)
 Aircraft mechanics, exc. engine (6116)
 Heavy equipment mechanics (6117)
 Farm equipment mechanics (6118)
 Industrial machinery repairers (613)
 Machinery maintenance occupations (614)
- 523 Electrical and Electronic Equipment Repairers
 Electronic repairers, communications and industrial equipment
 (6151, 6153, 6155)
 Data processing equipment repairers (6154)
 Household appliance and power tool repairers (6156)
 Telephone line installers and repairers (6157)
 Telephone installers and repairers (6158)
 Miscellaneous electrical and electronic equipment repairers
 (6152, 6159)
 Heating, air conditioning, and refrigeration mechanics (616)
Miscellaneous Mechanics and Repairers
 Camera, watch, and musical instrument repairers (6171, 6172)
 Locksmiths and safe repairers (6173)
 Office machine repairers (6174)
 Mechanical controls and valve repairers (6175)
 Elevator installers and repairers (6176)
 Millwrights (6178)
 Specified mechanics and repairers, n.e.c. (6177, 6179)
 Not specified mechanics and repairers
- Construction Trades**
- 553 Supervisors, construction occupations
 Supervisors, brickmasons, stonemasons, and tile setters (6312)
 Supervisors, carpenters and related workers (6313)
 Supervisors, electricians and power transmission installers (6314)
 Supervisors; painters, paperhangers, and plasterers (6315)
 Supervisors; plumbers, pipefitters, and steamfitters (6316)
 Supervisors, n.e.c. (6311, 6318)
- 563 Construction Trades, Except Supervisors
 Brickmasons and stonemasons, except apprentices (pt 6412, pt 6413)
 Brickmason and stonemason apprentices (pt 6412, 6413)
 Tile setters, hard and soft (6414, pt 6462)
 Carpet installers (pt 6462)
 Carpenters, except apprentices (pt 6422)
 Carpenter apprentices (pt 6422)
 Drywall installers (6424)

575 Electricians, except apprentices (pt 6432)
576 Electrician apprentices (pt 6432)
577 Electrical power installers and repairers (6433)
579 Painters, construction and maintenance (6442)
583 Paperhanglers (6443)
584 Plasterers (6444)
585 Plumbers, pipefitters, and steamfitters, except apprentices (pt 645)
587 Plumber, pipefitter, and steamfitter apprentices (pt 645)
588 Concrete and terrazzo finishers (6463)
589 Glaziers (6464)
593 Insulation workers (6465)
594 Paving, surfacing, and tamping equipment operators (6466)
595 Roofers (6468)
596 Sheetmetal duct installers (6472)
597 Structural metal workers (6473)
598 Drillers, earth (6474)
599 Construction trades, n.e.c. (6467, 6475, 6476, 6479)

Extractive Occupations

613 Supervisors, extractive occupations (632)
614 Drillers, oil well (652)
615 Explosives workers (653)
616 Mining machine operators (654)
617 Mining occupations, n.e.c. (656)

Precision Production Occupations

633 Supervisors, production occupations (67, 71)
Precision Metal Working Occupations
634 Tool and die makers, except apprentices (pt 6811)
635 Tool and die maker apprentices (pt 6811)
636 Precision assemblers, metal (6812)
637 Machinists, except apprentices (pt 6813)
639 Machinist apprentices (pt 6813)
643 Boilermakers (6814)
644 Precision grinders, filers, and tool sharpeners (6816)
645 Patternmakers and model makers, metal (6817)
646 Lay-out workers (6821)
647 Precious stones and metals workers (Jewelers) (6822, 6866)
649 Engravers, metal (6823)
653 Sheet metal workers, except apprentices (pt 6824)
654 Sheet metal worker apprentices (pt 6824)
655 Miscellaneous precision metal workers (6829)
Precision Woodworking Occupations
656 Patternmakers and model makers, wood (6831)
657 Cabinet makers and bench carpenters (6832)
658 Furniture and wood finishers (6835)
659 Miscellaneous precision woodworkers (6839)

Precision Textile, Apparel, and Furnishings Machine Workers
666 Dressmakers (pt 6852, pt 7752)
667 Tailors (pt 6852)
668 Upholsterers (6853)
669 Shoe repairers (6854)
673 Apparel and fabric patternmakers (6856)
674 Miscellaneous precision apparel and fabric workers (6859, pt 7752)
Precision Workers, Assorted Materials
675 Hand molders and shapers, except jewelers (6861)
676 Patternmakers, lay-out workers, and cutters (6862)
677 Optical goods workers (6864, pt 7477, pt 7677)
678 Dental laboratory and medical appliance technicians (6865)
679 Bookbinders (6844)
683 Electrical and electronic equipment assemblers (6867)
684 Miscellaneous precision workers, n.e.c. (6869)
Precision Food Production Occupations
686 Butchers and meat cutters (6871)
687 Bakers (6872)
688 Food batchmakers (6873, 6879)
Precision Inspectors, Testers, and Related Workers
689 Inspectors, testers, and graders (6891, 828)
693 Adjusters and calibrators (6882)
Plant and System Operators
694 Water and sewage treatment plant operators (691)
695 Power plant operators (pt 693)
696 Stationary engineers (pt 693, 7668)
699 Miscellaneous plant and system operators (692, 694, 695, 696)

OPERATORS, FABRICATORS, AND LABORERS

Machine Operators, Assemblers, and Inspectors
Machine Operators and Tenders, except Precision
Metalworking and Plastic Working Machine Operators
703 Lathe and turning machine set-up operators (7312)
704 Lathe and turning machine operators (7512)
705 Milling and planing machine operators (7313, 7513)
706 Punching and stamping press machine operators (7314, 7317, 7514, 7517)
707 Rolling machine operators (7316, 7516)
708 Drilling and boring machine operators (7318, 7518)
709 Grinding, abrading, buffing, and polishing machine operators
(7322, 7324, 7522)
713 Forging machine operators (7319, 7519)
714 Numerical control machine operators (7326)
715 Miscellaneous metal, plastic, stone, and glass working machine operators
(7329, 7529)
717 Fabricating machine operators, n.e.c. (7339, 7539)
Metal and Plastic Processing Machine Operators
719 Molding and casting machine operators (7315, 7342, 7515, 7542)
723 Metal plating machine operators (7343, 7543)
724 Heat treating equipment operators (7344, 7544)
725 Miscellaneous metal and plastic processing machine operators (7349, 7549)

Woodworking Machine Operators
 726 Wood lathe, routing, and planing machine operators (7431, 7432, 7631, 7632)
 727 Sawing machine operators (7433, 7633)
 728 Shaping and joining machine operators (7435, 7635)
 729 Nailing and tacking machine operators (7636)
 733 Miscellaneous woodworking machine operators (7434, 7439, 7634, 7639)
Printing Machine Operators
 734 Printing machine operators (7443, 7643)
 735 Photoengravers and lithographers (6842, 7444, 7644)
 736 Typesetters and compositors (6841, 7642)
 737 Miscellaneous printing machine operators (6849, 7449, 7649)

Textile, Apparel, and Furnishings Machine Operators
 738 Winding and twisting machine operators (7451, 7651)
 739 Knitting, looping, taping, and weaving machine operators (7452, 7652)
 743 Textile cutting machine operators (7654)
 744 Textile sewing machine operators (7655)
 745 Shoe machine operators (7656)
 747 Pressing machine operators (7657)
 748 Laundering and dry cleaning machine operators (6855, 7658)
 749 Miscellaneous textile machine operators (7459, 7659)

Machine Operators, Assorted Materials
 753 Cementing and gluing machine operators (7661)
 754 Packaging and filling machine operators (7462, 7662)
 755 Extruding and forming machine operators (7463, 7663)
 756 Mixing and blending machine operators (7664)
 757 Separating, filtering, and clarifying machine operators (7476, 7666, 7676)
 758 Compressing and compacting machine operators (7467, 7667)
 759 Painting and paint spraying machine operators (7669)
 763 Roasting and baking machine operators, food (7472, 7672)
 764 Washing, cleaning, and pickling machine operators (7673)
 765 Folding machine operators (7474, 7674)
 766 Furnace, kiln, and oven operators, exc. food (7675)
 768 Crushing and grinding machine operators (pt 7477, pt 7677)
 769 Slicing and cutting machine operators (7478, 7678)
 773 Motion picture projectionists (pt 7479)
 774 Photographic process machine operators (6863, 6868, 7671)
 Miscellaneous and not specified machine operators:
 Occupation:
 777 *Miscellaneous machine operators, n.e.c. (pt 7479, 7665, 7679)
 779 *Machine operators, not specified
 Industry:
 Manufacturing:
 Nondurable goods
 Durable goods
 Nonmanufacturing industries

Fabricators, Assemblers, and Hand Working Occupations
 783 Welders and cutters (7332, 7532, 7714)
 784 Solderers and blazers (7333, 7533, 7717)

* "Miscellaneous machine operators, n.e.c." (777) and "Machine operators, not specified" are retabulated by industry (777,779) in the three categories following the entry.

785	Assemblers (772, 774)
786	Hand cutting and trimming occupations (7753)
787	Hand molding, casting, and forming occupations (7754, 7755)
789	Hand painting, coating, and decorating occupations (7756)
793	Hand engraving and printing occupations (7757)
794	Hand grinding and polishing occupations (7758)
795	Miscellaneous hand working occupations (7759)
	Production Inspectors, Testers, Samplers, and Weighers
796	Production inspectors, checkers, and examiners (782, 787)
797	Production testers (783)
798	Production samplers and weighers (784)
799	Graders and sorters, exc. agricultural (785)
	Transportation and Material Moving Occupations
	Motor Vehicle Operators
803	Supervisors, motor vehicle operators (8111)
804	Truck drivers, heavy (8212, 8213)
805	Truck drivers, light (8214)
806	Driver-sales workers (8218)
808	Bus drivers (8215)
809	Taxicab drivers and chauffeurs (8216)
813	Parking lot attendants (874)
814	Motor transportation occupations, n.e.c. (8219)
	Transportation Occupations, Except Motor Vehicles
	Rail Transportation Occupations
823	Railroad conductors and yardmasters (8113)
824	Locomotive operating occupations (8232)
825	Railroad brake, signal, and switch operators (8233)
826	Rail vehicle operators, n.e.c. (8239)
	Water Transportation Occupations
826	Ship captains and mates, except fishing boats (pt 8241, 8242)
829	Sailors and deckhands (8243)
833	Marine engineers (8244)
834	Bridge, lock, and lighthouse tenders (8245)
	Material Moving Equipment Operators
843	Supervisors, material moving equipment operators (8112)
844	Operating engineers (8312)
845	Longshore equipment operators (8313)
848	Hoist and winch operators (8314)
849	Crane and tower operators (8315)
853	Excavating and loading machine operators (8316)
855	Grader, dozer, and scraper operators (8317)
856	Industrial truck and tractor equipment operators (8318)
859	Miscellaneous material moving equipment operators (8319)

Handlers, Equipment Cleaners, Helpers, and Laborers
863 Supervisors, handlers, equipment cleaners, and laborers, n.e.c. (85)
864 Helpers, mechanics and repairers (863)
Helpers, Construction and Extractive Occupations
865 Helpers, construction trades (8641-8645, 8648)
866 Helpers, surveyor (8646)
867 Helpers, extractive occupations (865)
869 Construction laborers (871)
873 Production helpers (861, 862)
Freight, Stock, and Material Handlers
875 Garbage collectors (8722)
876 Stevedores (8723)
877 Stock handlers and baggers (8724)
878 Machine feeders and offbearers (8725)
883 Freight, stock, and material handlers, n.e.c. (8726)
885 Garage and service station related occupations (873)
887 Vehicle washers and equipment cleaners (875)
888 Hand packers and packagers (8761)
889 *Laborers, except construction (8769)
Industry:
Manufacturing:
 Nondurable goods
 Durable goods
Transportation, communications, and other public utilities
Wholesale and retail trade
All other industries

919 Unemployed, no civilian work experience since 1975

* "Laborers, except construction" are tabulated by industry in the five categories following the entry.

APPENDIX B
Census Municipio Codes, FIPS
SMSA Codes, and Census Place
Codes for Zonas Urbanas of
50,000 or More Population

<u>Code</u>	<u>Municipio</u>
001	ADJUNTAS
003	AGUADA
005	AGUADILLA
007	AGUAS BUENAS
009	AIBONITO
011	ANASCO
013	ARECIBO
015	ARROYO
017	BARCELONETA
019	BARRANQUITAS
021	BAYAMON
023	CABO ROJO
025	CAGUAS
027	CAMUY
029	CANOVANAS
031	CAROLINA
033	CATAÑO
035	CAYEY
037	CEIBA
039	CIALES
041	CIDRA
043	COAMO
045	COMERIO
047	COROZAL
049	CULBERA
051	DORADO
053	FAJARDO
054	FLORIDA
055	GUANICA
057	GUAYAMA
059	GUAYANILLA
061	GUAYNABO
063	GURABO
065	HATILLO
067	HORMIGUEROS
069	HUMACAO
071	ISABELA
073	JAYUYA
075	JUANA DIAZ
077	JUNCOS
079	Lajas
081	LARES
083	LAS MARIAS
085	LAS PIEDRAS
087	LOIZA

069	LUQUILLO
091	MANATÍ
093	MARICAO
095	MAUNABO
097	MAYAGÜEZ
099	MOCA
101	MOROVIS
103	NAGUABO
105	NARAMJITO
107	OROCOVIS
109	PATILLAS
111	PEÑUELAS
113	PONCE
115	GUERRADILLAS
117	RINCON
119	RIO GRANDE
121	SABANA GRANDE
123	SALINAS
125	SAN GERMAN
127	SAN JUAN
129	SAN LORENZO
131	SAN SEBASTIAN
133	SANTA ISABEL
135	TOA ALTA
137	TOA BAJA
139	TRUJILLO ALTO
141	UTUADO
143	VEGA ALTA
145	VEGA BAJA
147	VIEQUES
149	VILLA ALBA
151	YABUCOA
153	YANCO

<u>Code</u>	<u>SMSA</u>
0470	ARECIBO
1310	CAGUAS
4840	MAYAGÜEZ
6360	PONCE
7440	SAN JUAN

<u>Code</u>	<u>Zona Urbana</u>
0180	BAYAMON
0285	CAGUAS
0360	CAROLINA
0695	GUAYNABO
1090	MAYAGÜEZ
1385	PONCE
1705	SAN JUAN

APPENDIX C

1980 Major Occupation Groups in Terms of 1970 Population Census Occupation Categories
 Conversion of past data (1970-based) to current (1980-based)

1980 Census Major Group Categories & Codes	Equivalent 1970 Census Major Group Categories and Codes
Executive, Administrative and Managerial (003-037)	Managers & Administrators, Except Farm (201-245) <u>But Add:</u> Accountants (001) Personnel & labor relations workers (055) Inspector, n.e.c. (452)
	<u>Delete:</u> Ship officers, pilots and purser (221) Railroad conductors (226)
Professional Specialty Occupations (043-199)	Part of Professional, Technical and Kindred Workers (001-076, 086-145, 174-195) <u>But Add:</u> Decorators & window dressers (425) Health trainees (923)
	<u>Delete:</u> Accountants (001) Computer programmers (003) Sales engineers (022) Personnel & labor relations workers (056)
Technicians and Related Occupations (200-235)	Part of Professional, Technical and Kindred Workers (080-085, 150-173) <u>But Add:</u> Computer programmers (003) Practical nurses (926) <u>Delete:</u> Therapy assistants (084)
Sales Occupations (243-285)	Sales Workers (260-285) <u>But Add:</u> Sales engineers (022) Cashiers (310) Real estate appraisers (363)
Administrative Support, Including Clerical (303-389)	Clerical and Kindred Workers (301-395) <u>But Delete:</u> Cashiers (310) Real estate appraisers (363)

1980 Major Occupation Groups in Terms of 1970 Population Census Occupation Categories - continued

1980 Census Major Group Categories & Codes	Equivalent 1970 Census Major Group Categories and Codes
Private Household (403-407)	Private Household Workers (900-904)
Protective Service (413-477) Service, exc., Protective and Household (433-469)	<p>Service workers, exc. Private Household (901-905)</p> <p>But Add: Therapy assistants (904) Urban rail transit conductors and motormen (704)</p> <p>Delete: Health trainees (923) Practical nurses (926)</p>
Farming, Forestry and Fishing Occupations (473-499)	<p>{ Farmers and Farm Managers Farm Laborers and Farm Supervisors }</p> <p>But Add: Animal caretakers, exc. farm (740) Fishermen & oystermen (752) Gardeners & groundskeepers, exc. farm (755) Lumbermen, raftsmen, & woodchoppers (761)</p> <p>Crafts and Kindred Workers (401-580)</p> <p>But Add: Asbestos & insulation workers (801) Blasters and powdermen (603) Dressmakers & seamstresses (613) Earth drillers (614) Dry wall installers & lathers (615) Meat cutters & butchers (631 & 633) Milliners (636) Mine operatives, n.e.c. (640) Oilers & greasers, exc. auto (642)</p> <p>Delete: Bulldozer operators (412) Compositors & typesetters (422) Printing trades apprentices (423) Crane men, derrickmen & hoistmen (424) Decorators & window dressers (425) Electrotypers & stereotypers (434) Excavating, grading & road machine operators (436)</p>

(continued on next page)

1980 Major Occupation Groups in Terms of 1970 Population Census Occupation Categories - continued

1980 Census Major Group Categories & Codes	Equivalent 1970 Census Major Group Categories and Codes
Precision Production, Craft and Repair Occupations (continued)	<p>Crafts and Kindred Workers (401-580) - (continued)</p> <p>Doles:</p> <p>(continued)</p> <p>Forgemen and hamermen (442)</p> <p>Heat treatters, annealers and temperers (446)</p> <p>Log & lumber inspectors, scalers and graders (450)</p> <p>Inspectors, n.e.c. (452)</p> <p>Locomotive engineers (455)</p> <p>Locomotive firemen (456)</p> <p>Millers (grain, flour & feed) (501)</p> <p>Motion picture projectionists (505)</p> <p>Photoengravers & lithographers (515)</p> <p>Printing pressmen & plate printers (530)</p> <p>Pressmen apprentices (531)</p> <p>Metal rollers & finishers (533)</p> <p>Sign painters & letterers (543)</p>
Machine Operators, Assemblers and Inspectors (703-799)	<p>Operatives, exc. Transport (601-695)</p> <p>But Add:</p> <p>Compositors & typesetters (422)</p> <p>Printing trade apprentices (423)</p> <p>Electrotypers & stereotypers (434)</p> <p>Forgemen & hamermen (442)</p> <p>Heat treatters, annealers & temperers (446)</p> <p>Log and lumber inspectors, scalers & graders (450)</p> <p>Millers (grain, flour & feed) (501)</p> <p>Motion picture projectionists (505)</p> <p>Photoengravers & lithographers (515)</p> <p>Printing pressmen & plate printers (530)</p> <p>Pressmen apprentices (531)</p> <p>Metal rollers & finishers (533)</p> <p>Sign painters & letterers (543)</p> <p>(continued on next page)</p>

1980 Major Occupation Groups In Terms of 1970 Population Census Occupation Categories - continued

1980 Census Major Group Categories & Codes	Equivalent 1970 Census Major Group Categories and Codes
Machine Operators, Assemblers and Inspectors - (continued)	<p><u>Operatives, exc. Transport</u>-(continued)</p> <p><u>Delete:</u> Asbestos & insulation workers (601) Blasters & powdermen (603) Surveying chainmen, rodmen & axmen (605) Dressmakers & seamstresses (613) Earth drillers (614)</p> <p>Drywall installers & lathers (615) Garage workers & gas station attendants (623) Meat cutters & butchers (631 & 633) Meat wrappers, retail trade (634) Milliners (636) Mine operatives, n.e.c. (640) Oilers & greasers, exc. auto (642) Packers & wrappers (643) Sailors & deckhands (661)</p>
Transportation and Material Moving Occupations (803-859)	<p><u>But Add:</u> Ship officers, pilots & pursers (221) Railroad conductors (226) Bulldozer operators (412) Crane men, derrickmen & hoistmen (424) Excavating, grading & road machine operators (436) Locomotive engineers (455) Locomotive firemen (456) Surveying chainmen, roadmen and axmen (605) Sailors & deckhands (661) Teamsters (763)</p> <p><u>Delete:</u> Urban rail transit conductors & motormen (704)</p> <p>Laborers, exc. Farm (740-785)</p> <p><u>But Add:</u> Garage workers & gas station attendants (623) Meat wrappers, retail trade (634) Packers & wrappers (643)</p>
Handlers, Equipment Cleaners, Helpers and Laborers (863-880)	<p><u>Delete:</u> Animal caretakers, exc. farm (740) Fishermen & oystermen (752) Gardeners & groundkeepers, exc. farm (775) Lumbermen, raftsmen & woodchoppers (761) Teamsters (763)</p>